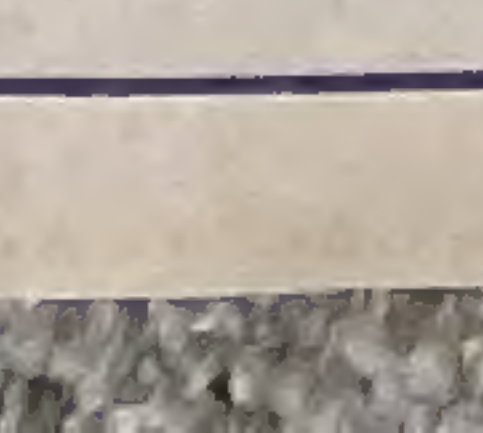
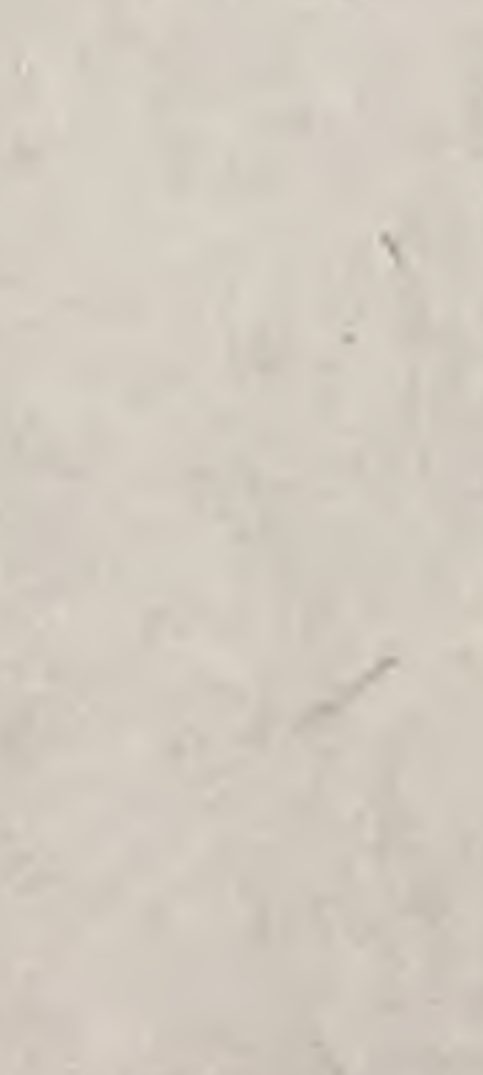
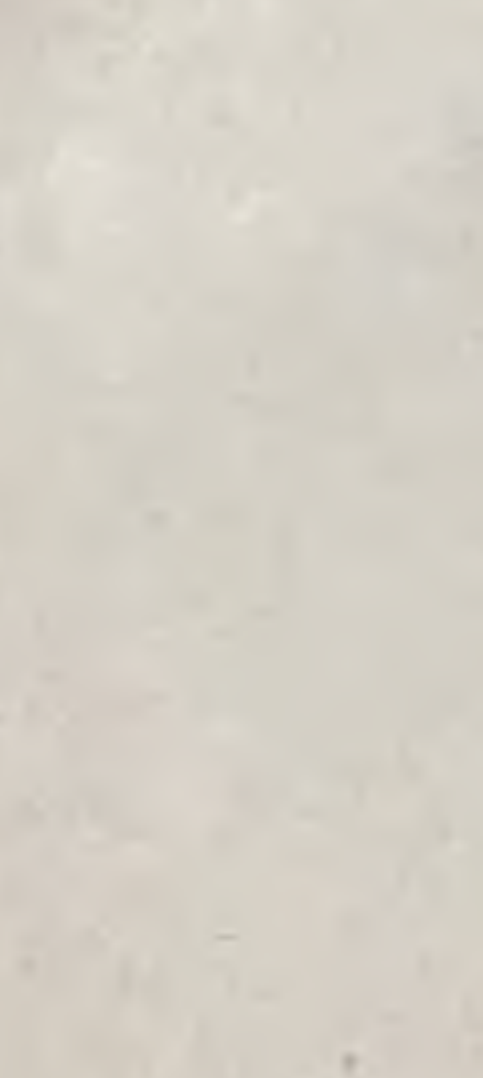
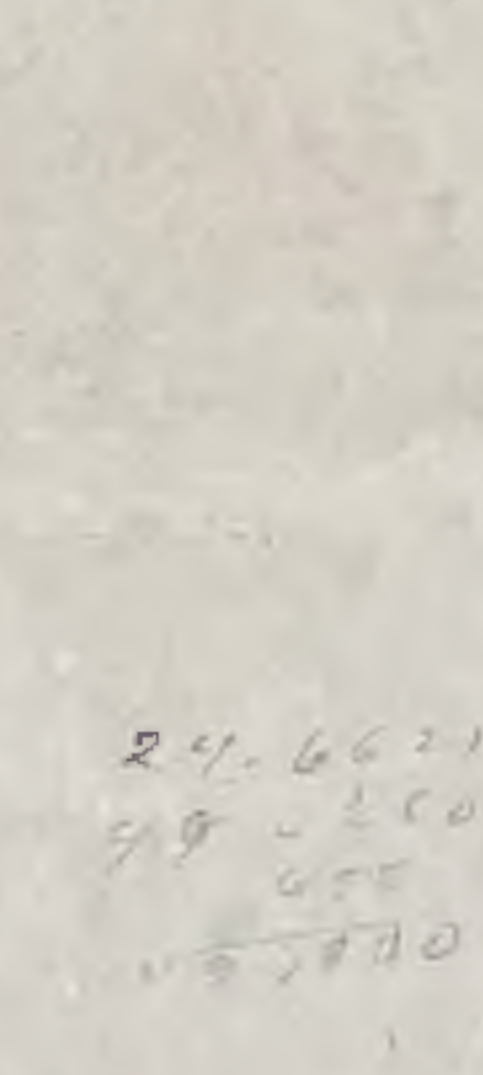
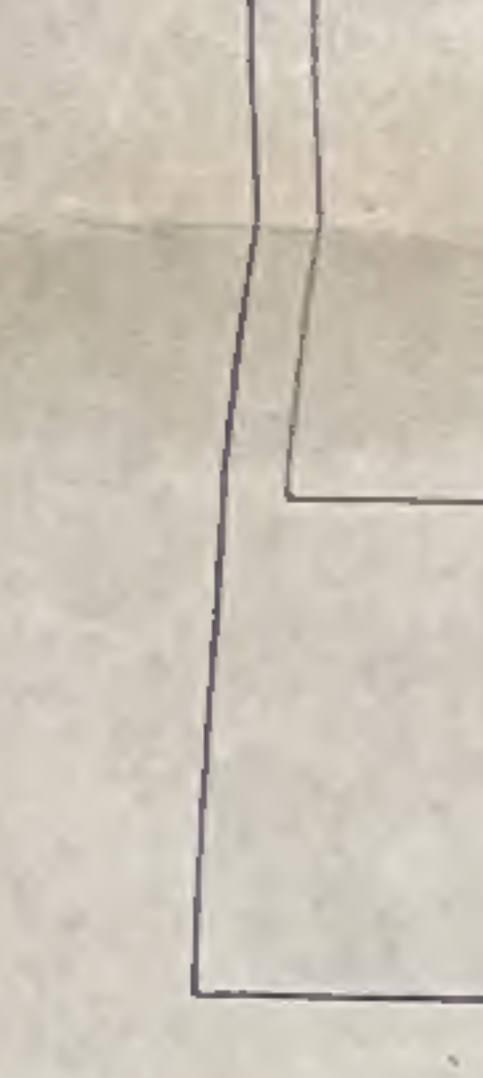
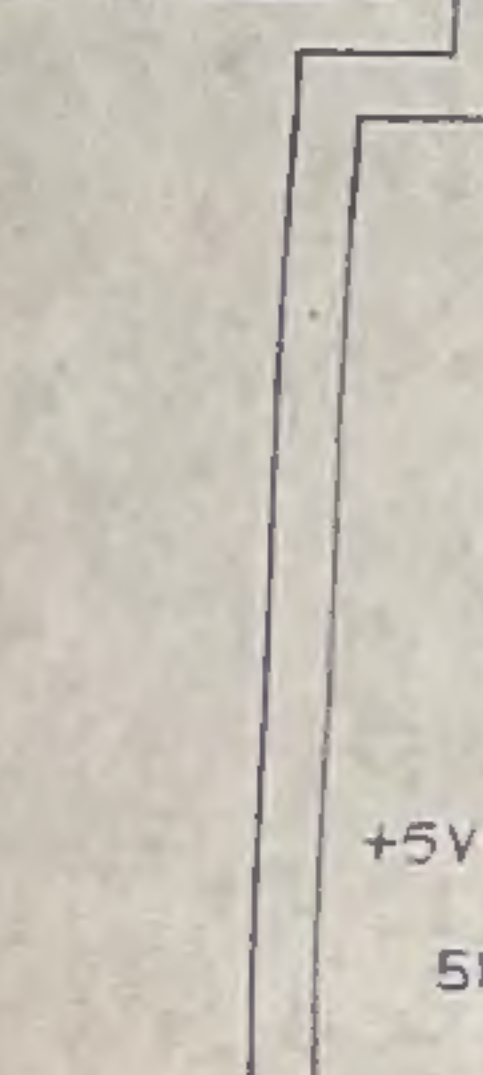


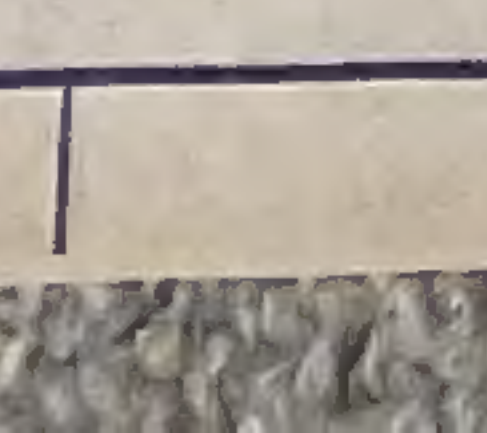
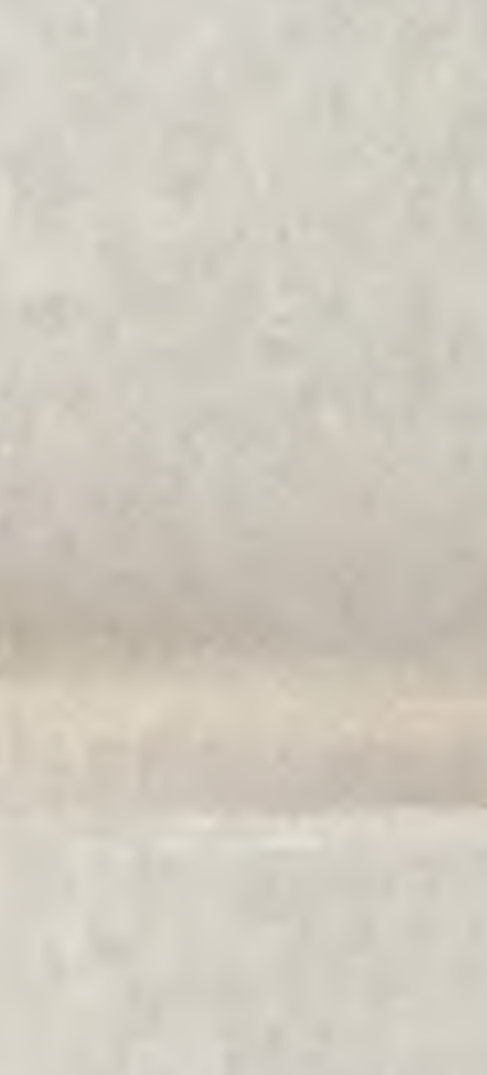
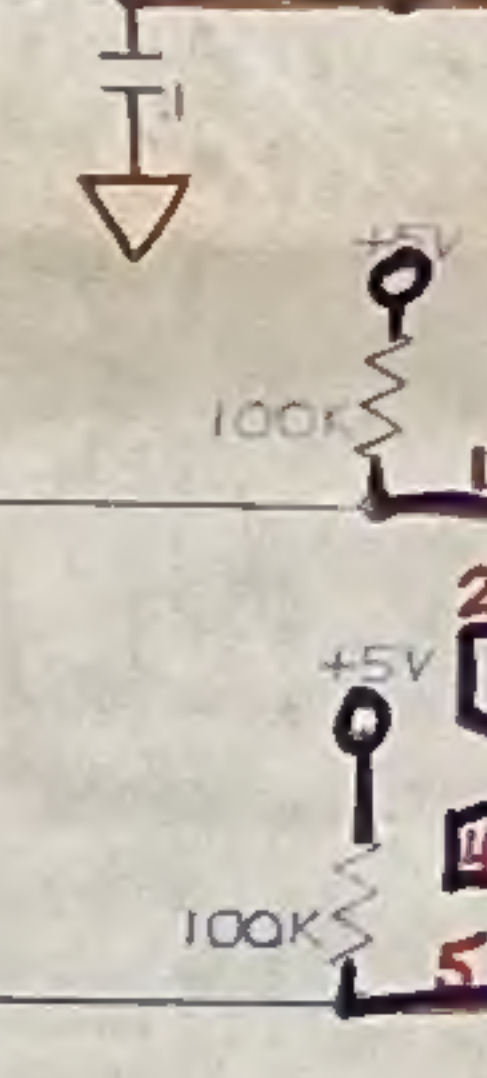
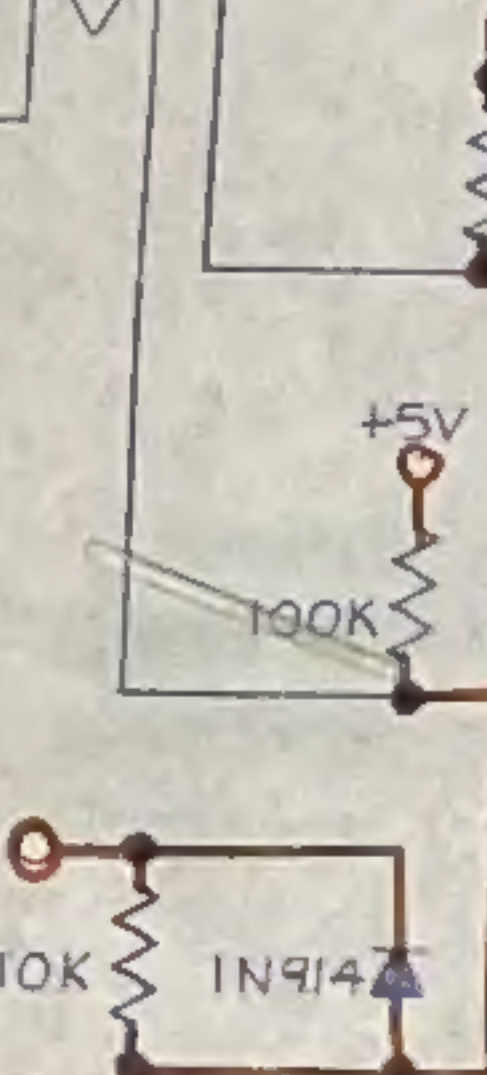
MONOPANEL

- RESET
- SELECT
- RIGHT DIFF. B
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- LEFT DIFF. B
- LEFT DIFF. A
- REMOTE
- LOCAL
- B.W.
- COLOR
- JOYSTICK
- POT



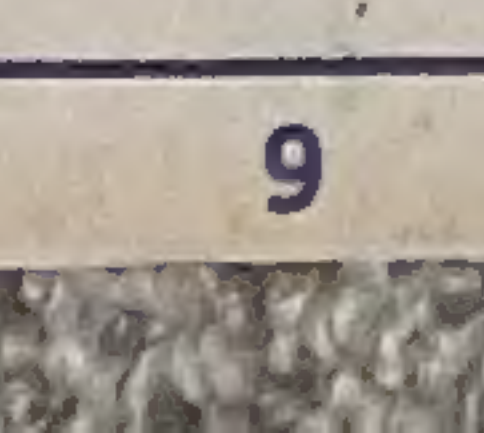
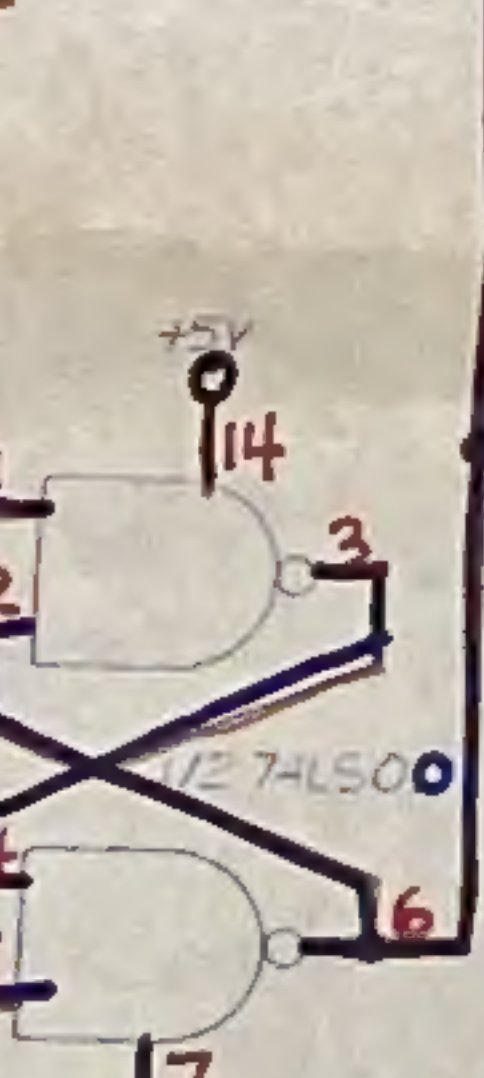
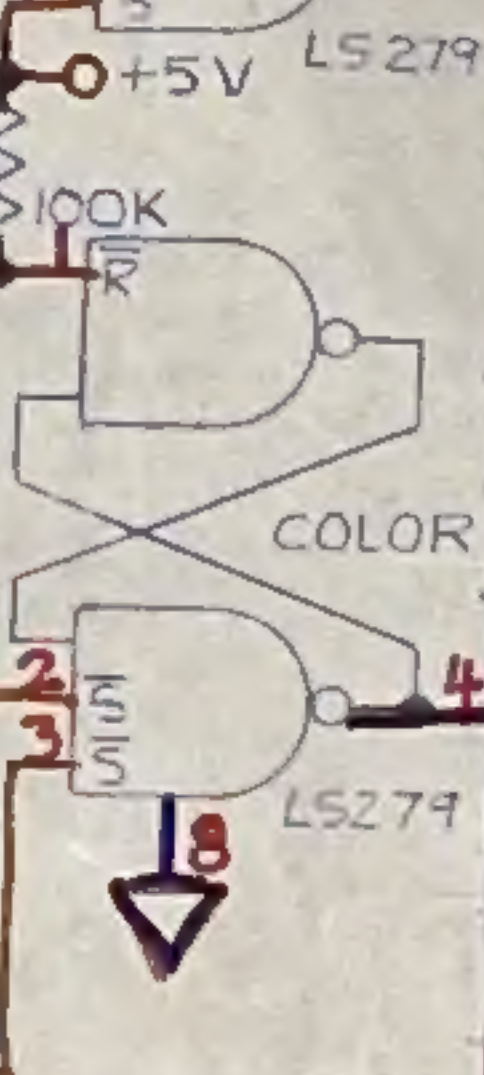
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- RESET
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- B.W.
- COLOR
- JOYSTICK
- POT



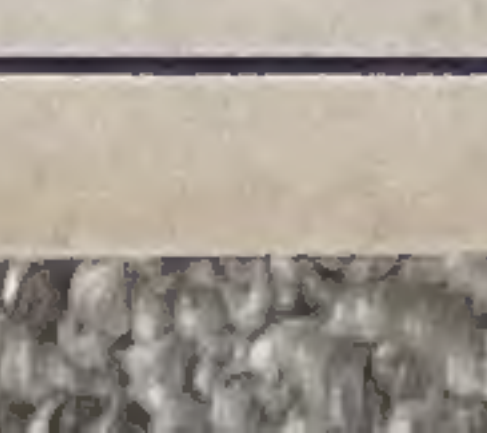
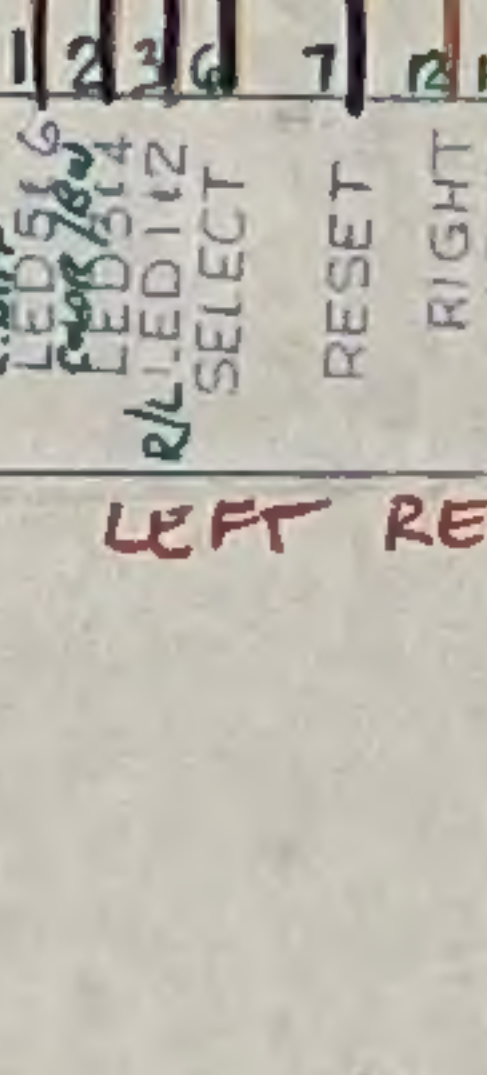
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- COLOR
- JOYSTICK
- POT



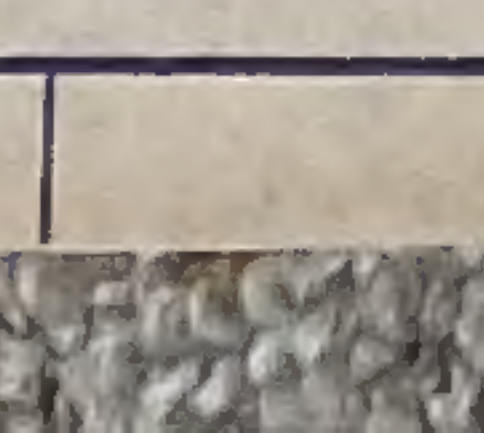
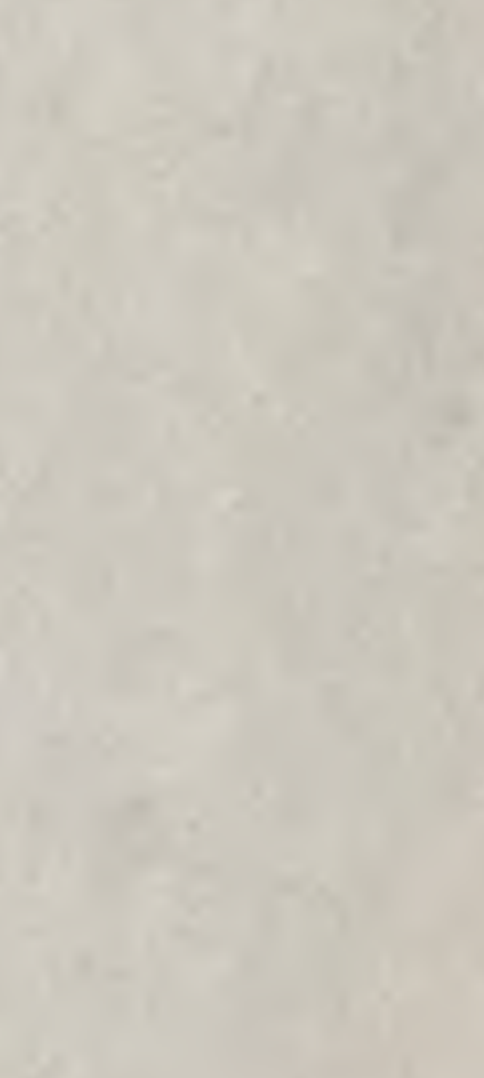
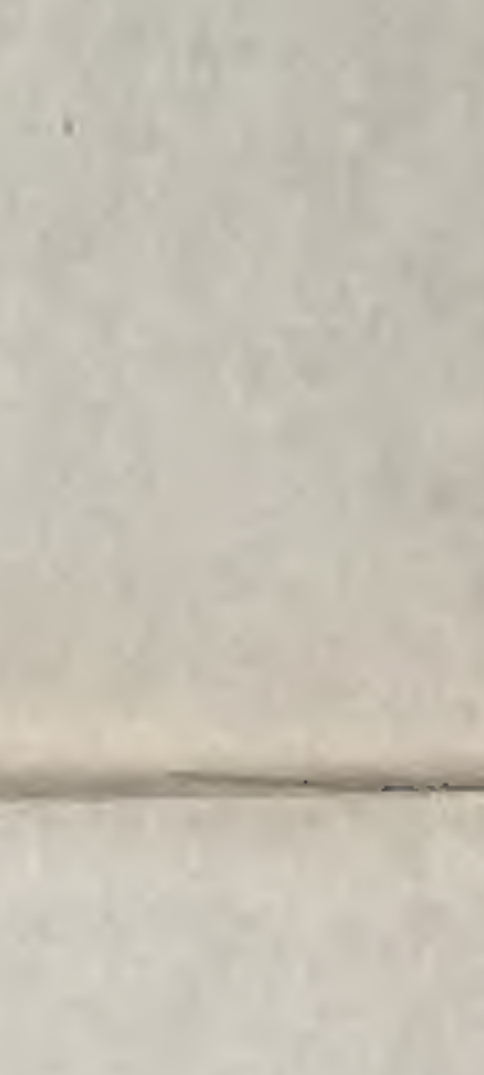
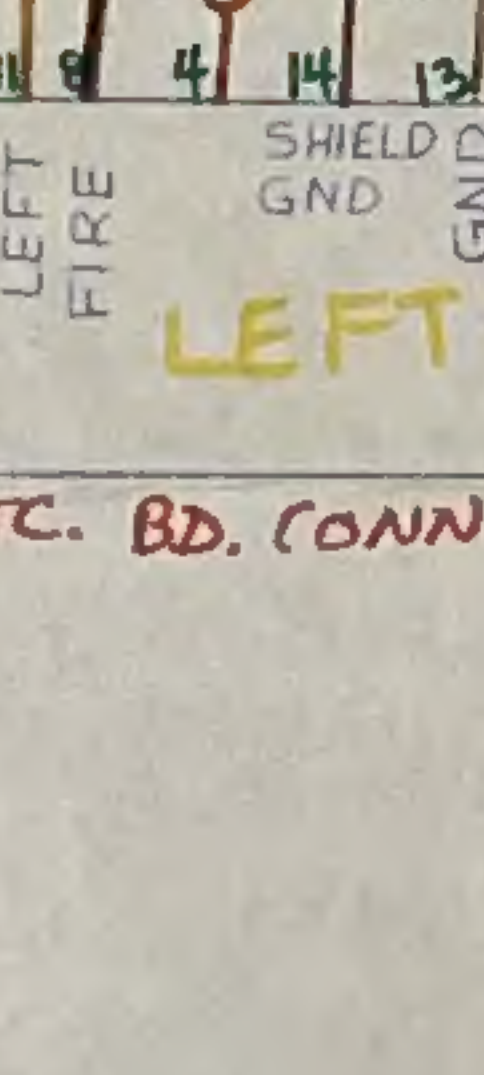
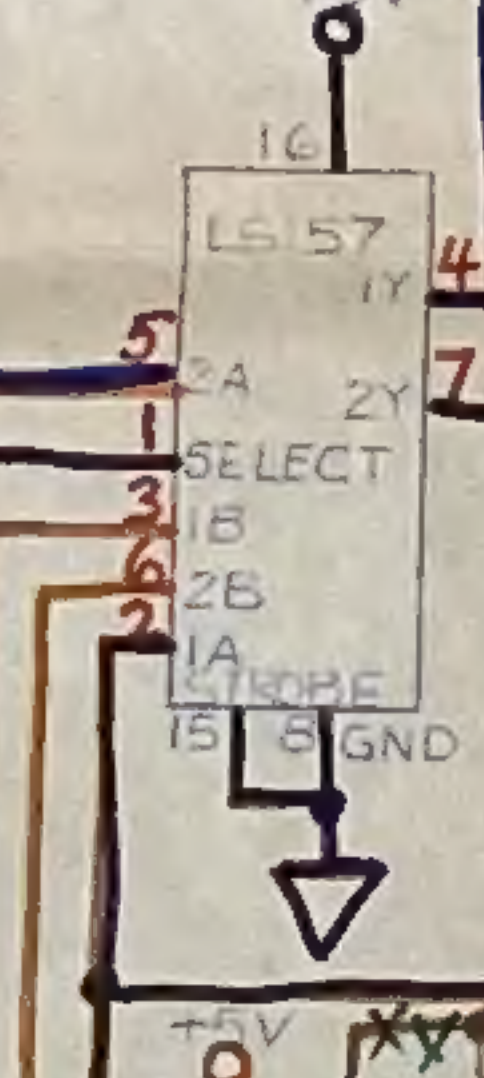
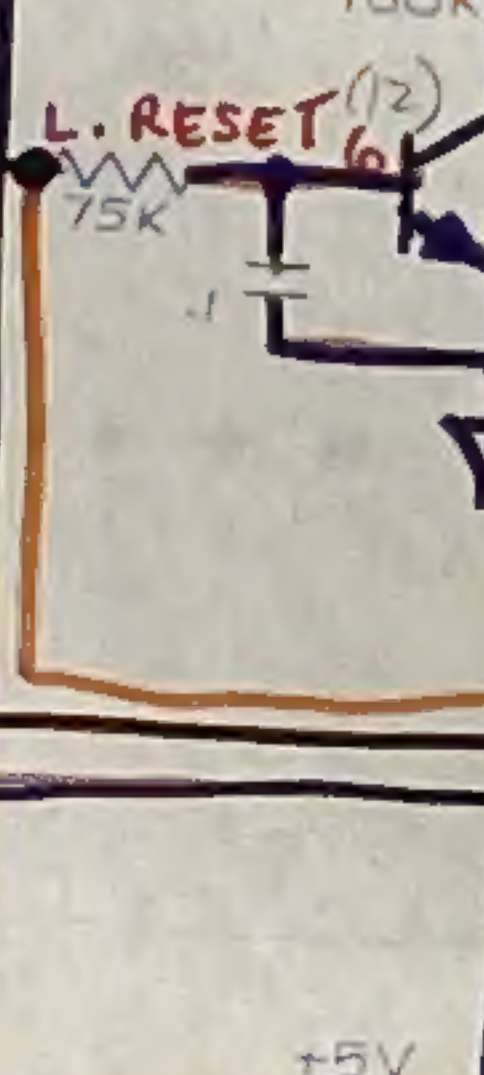
RIGHT

- RESET
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- LOCAL
- B.W.
- COLOR
- JOYSTICK
- POT



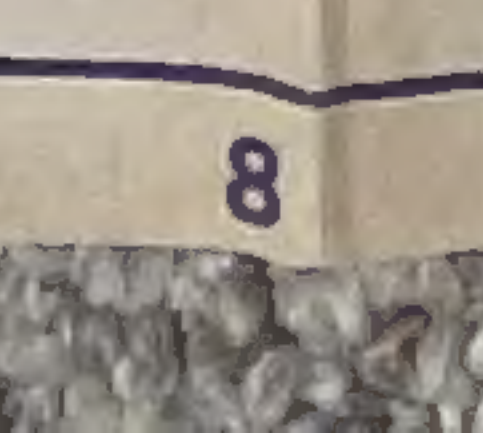
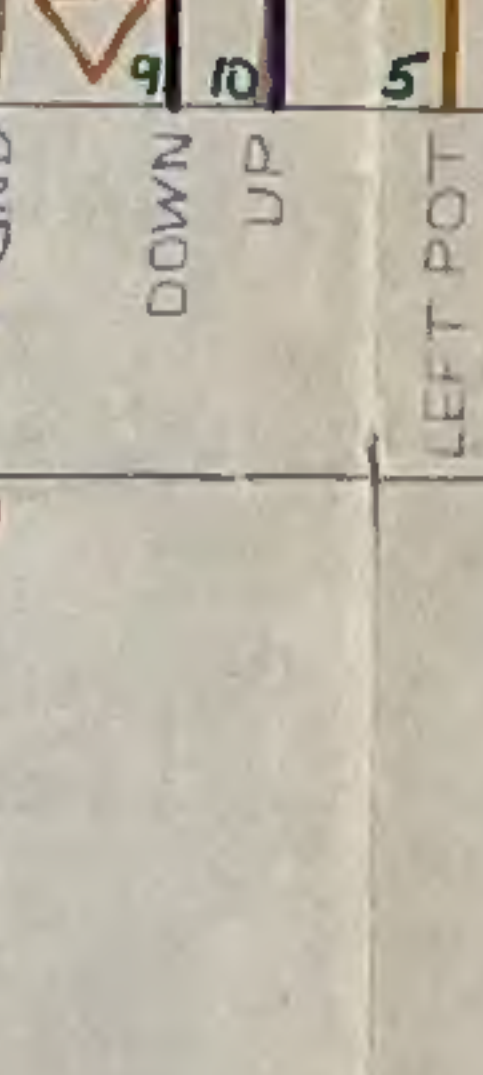
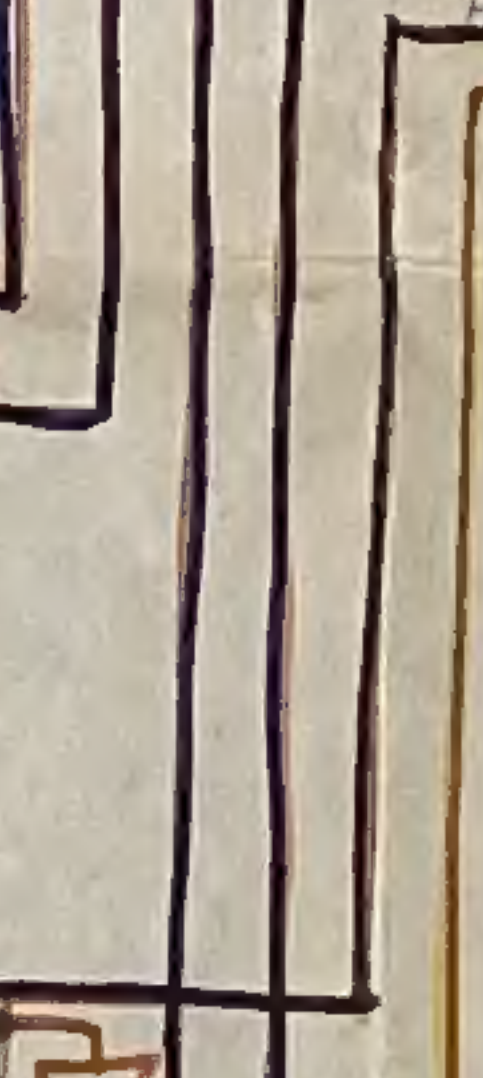
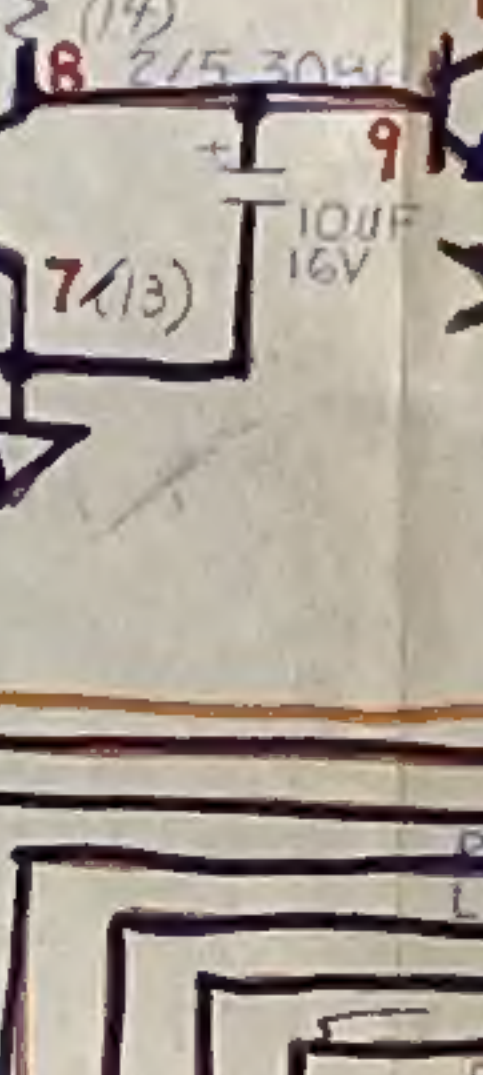
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- COLOR
- JOYSTICK
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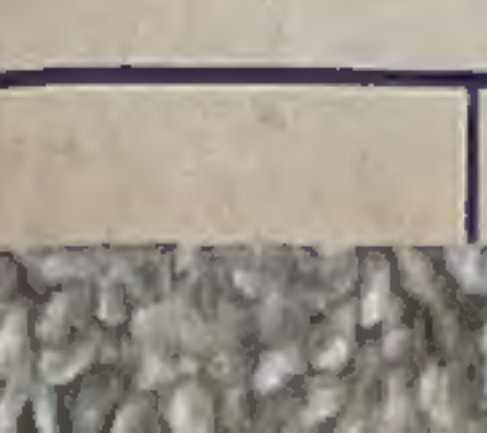
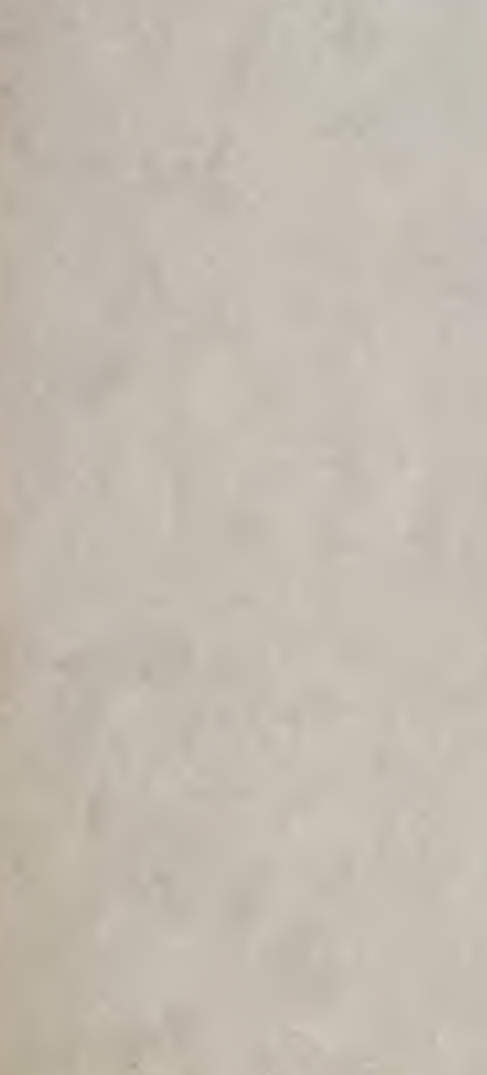
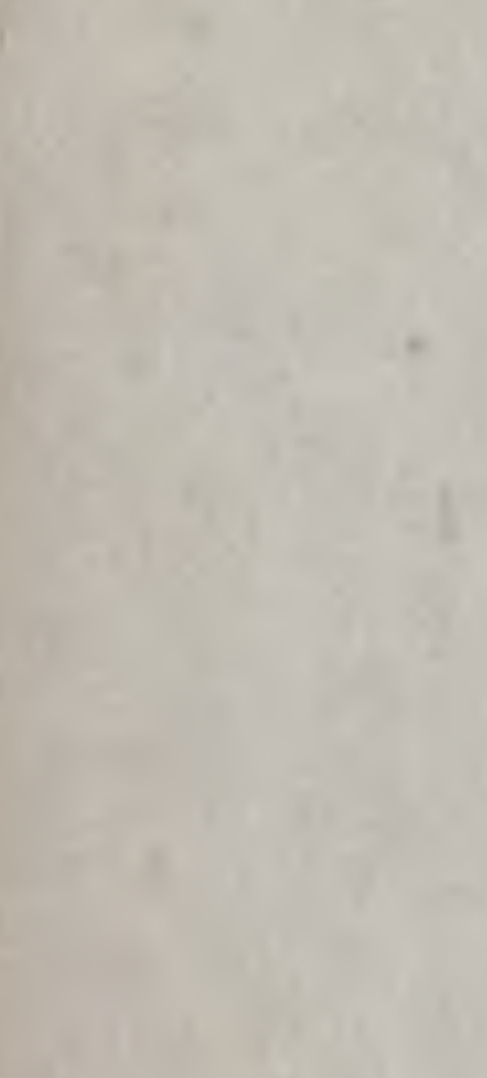
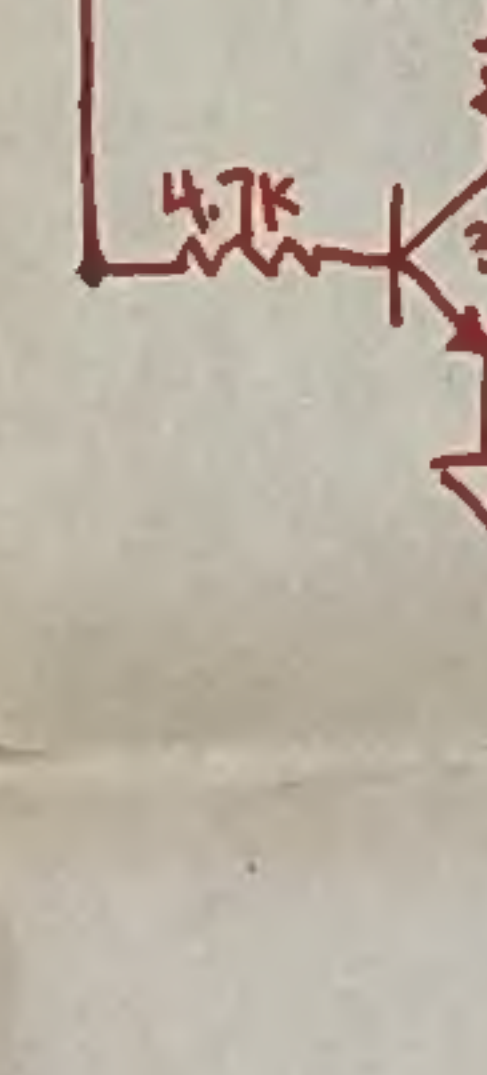
RIGHT

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- POT



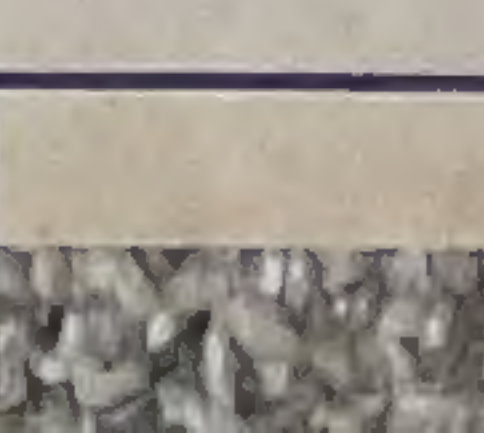
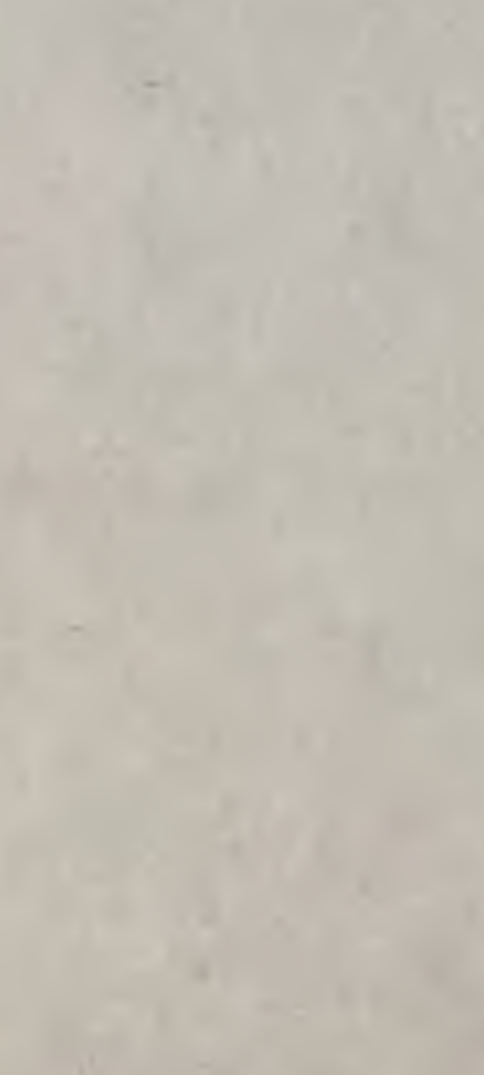
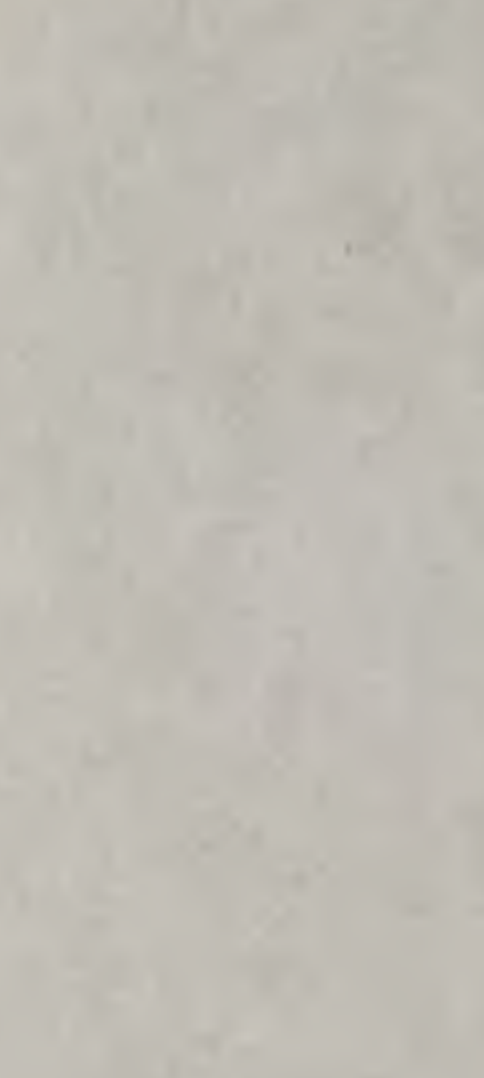
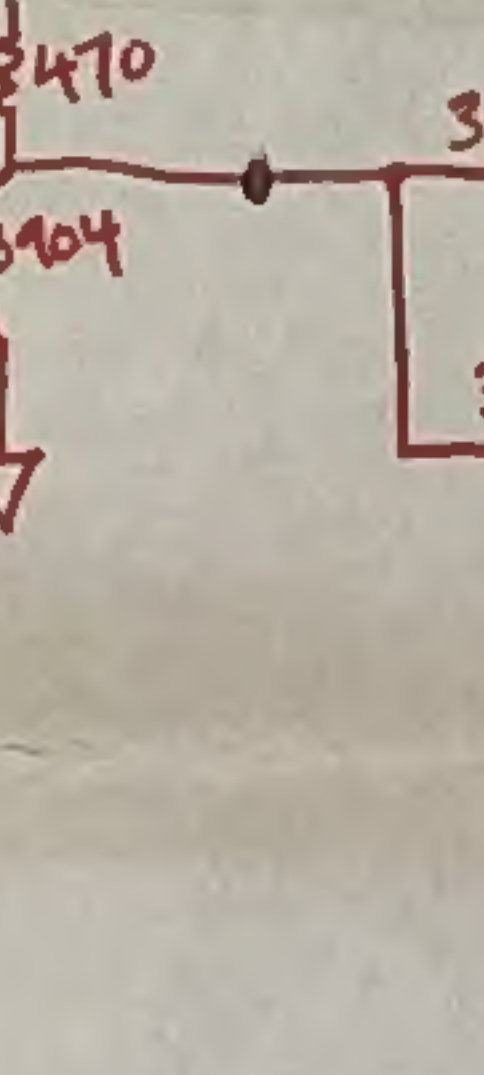
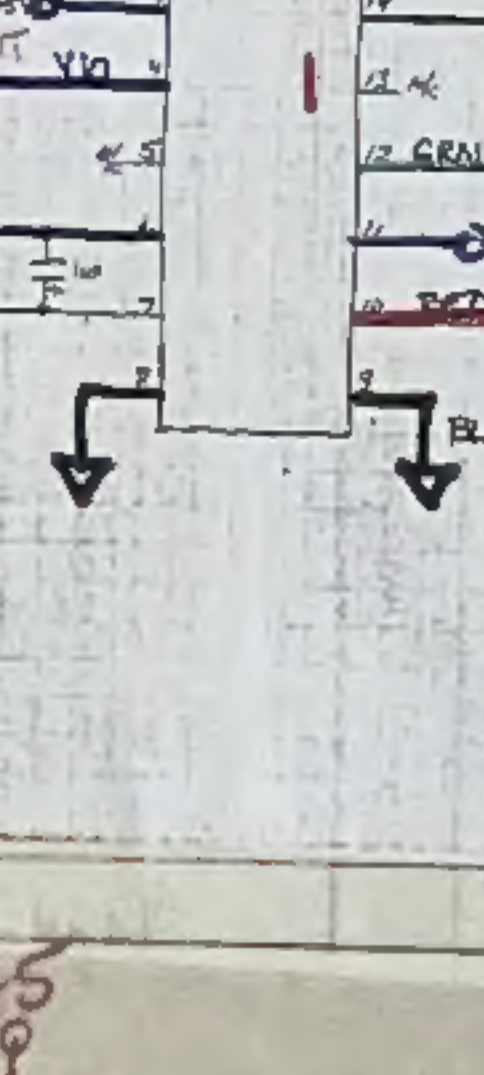
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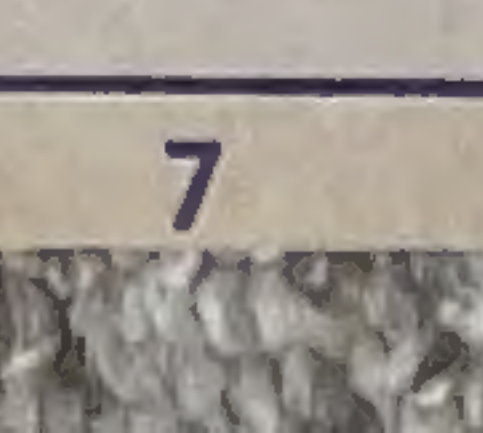
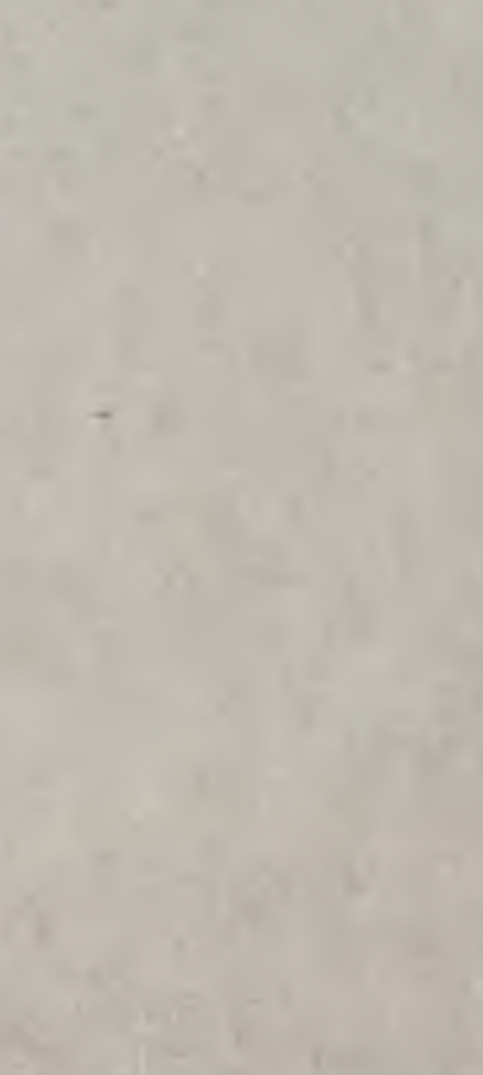
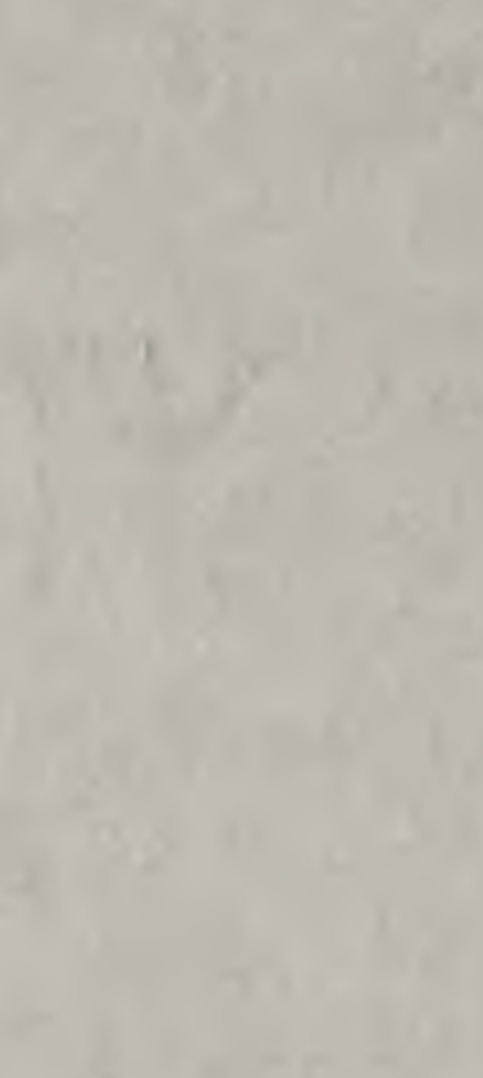
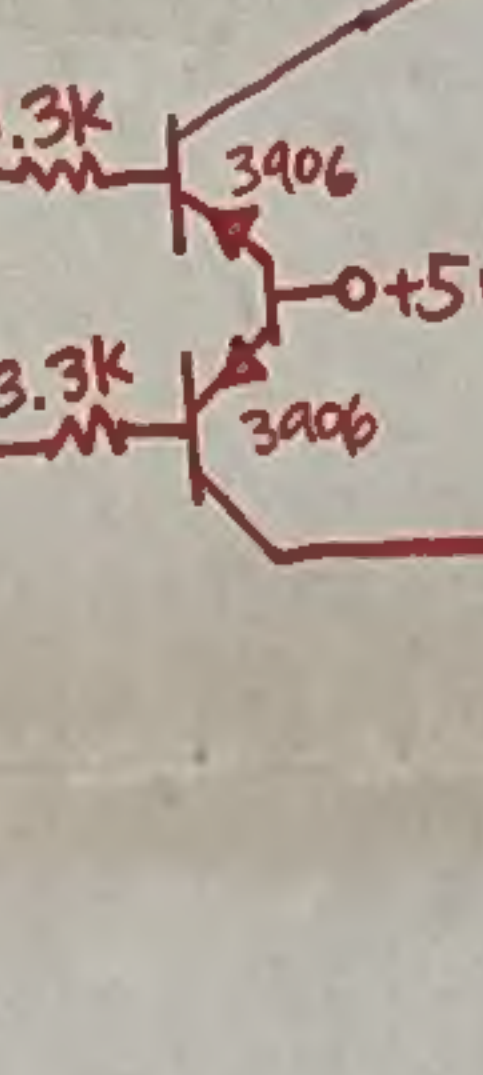
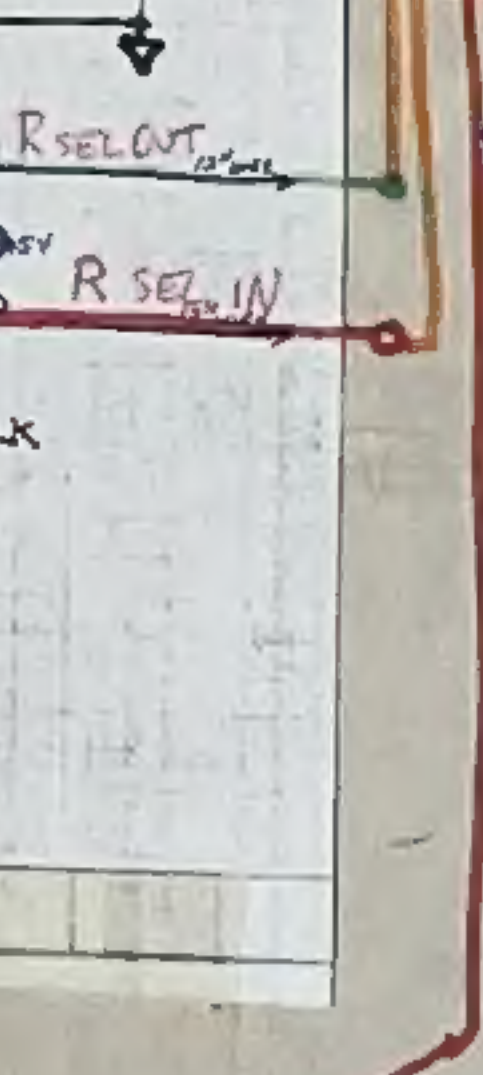
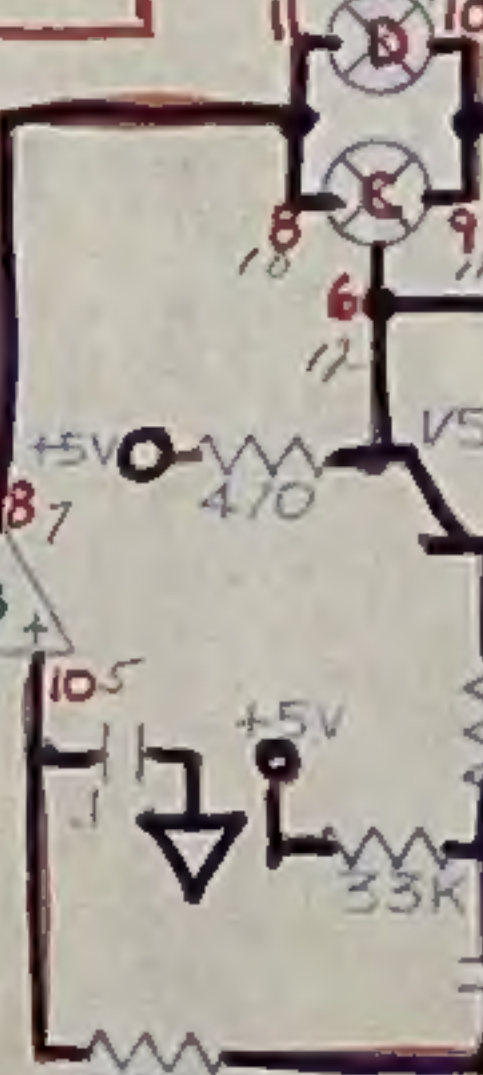
RIGHT

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- JOYSTICK
- POT



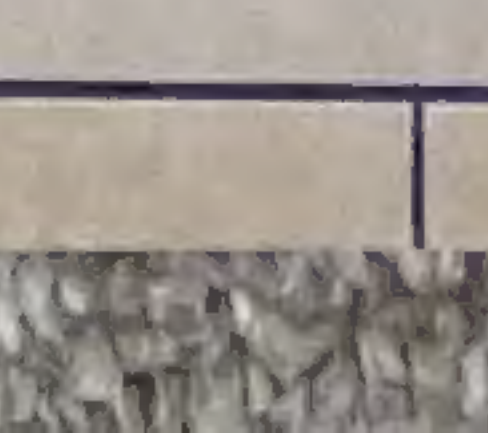
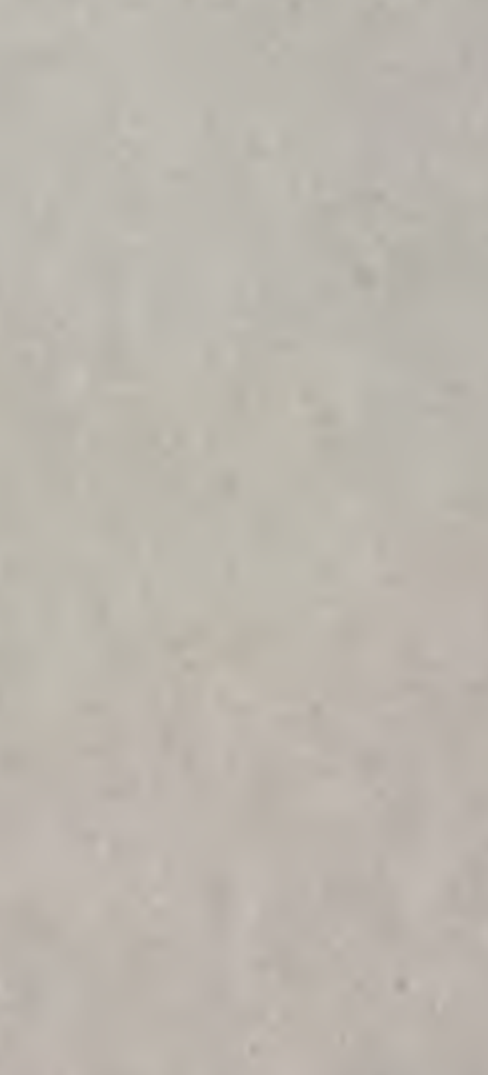
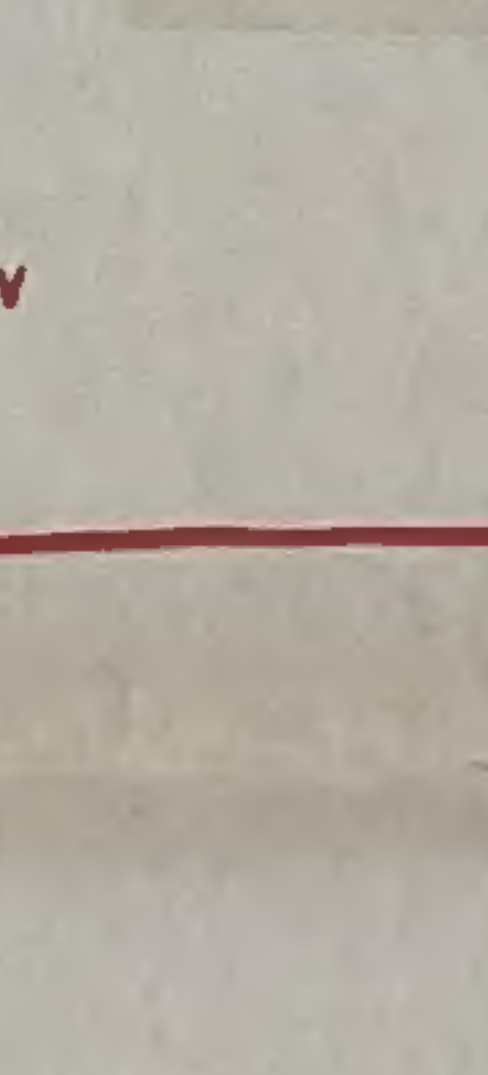
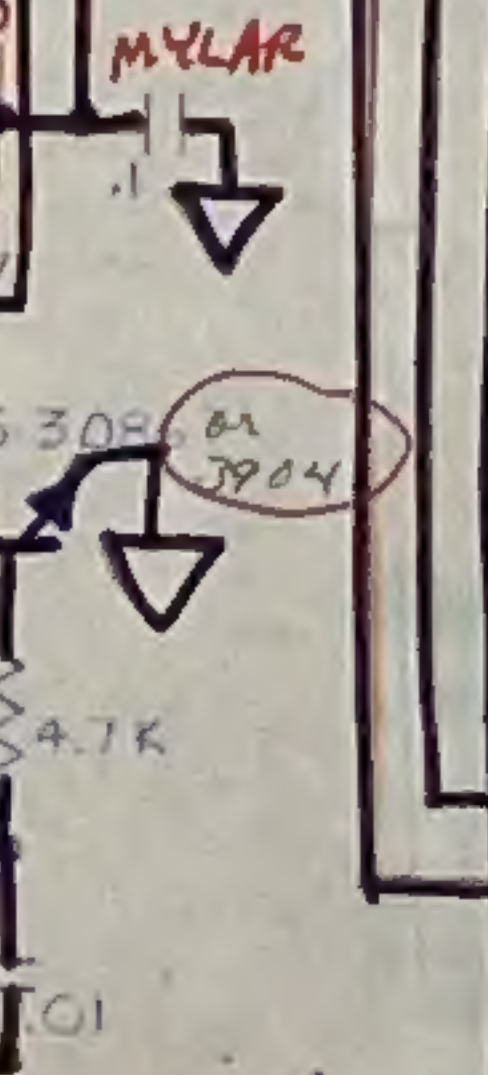
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- POT



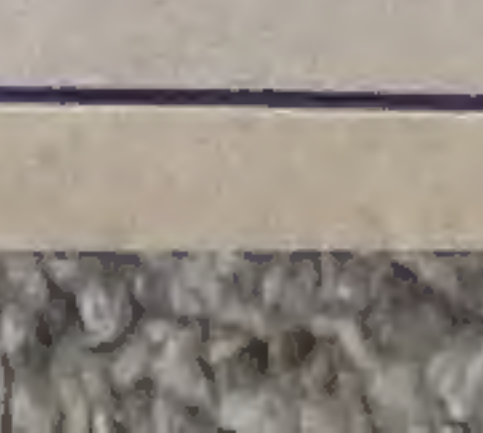
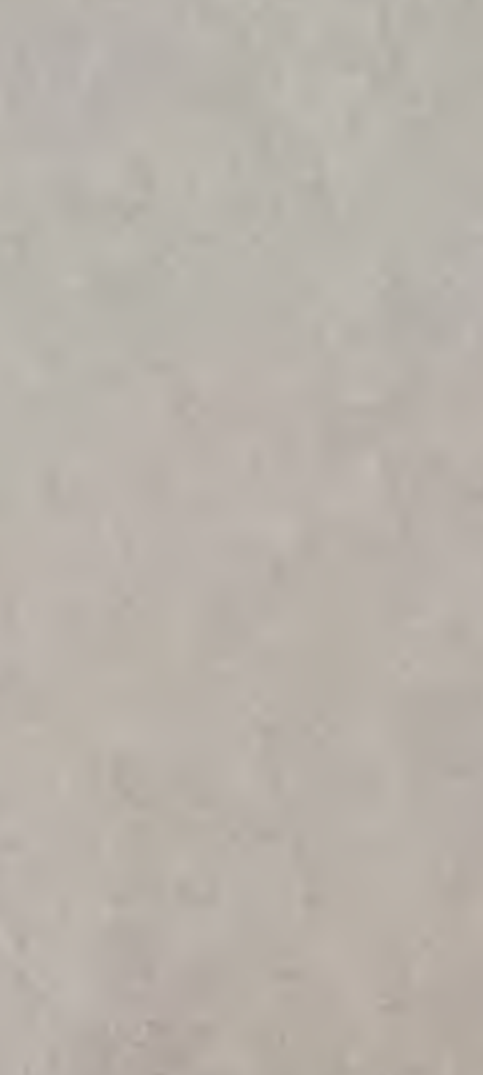
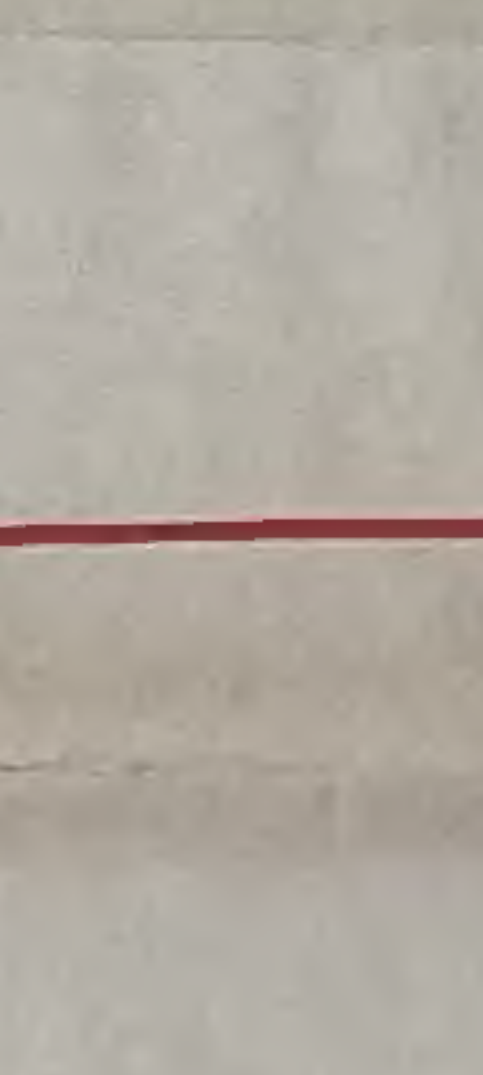
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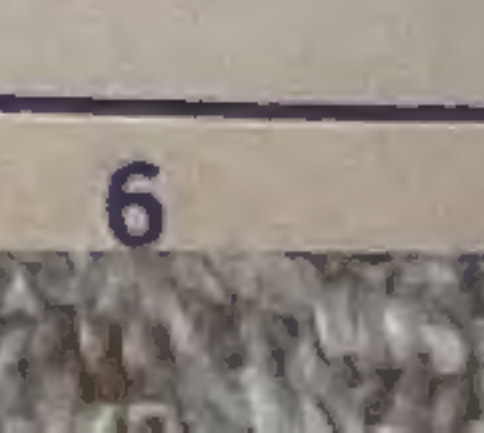
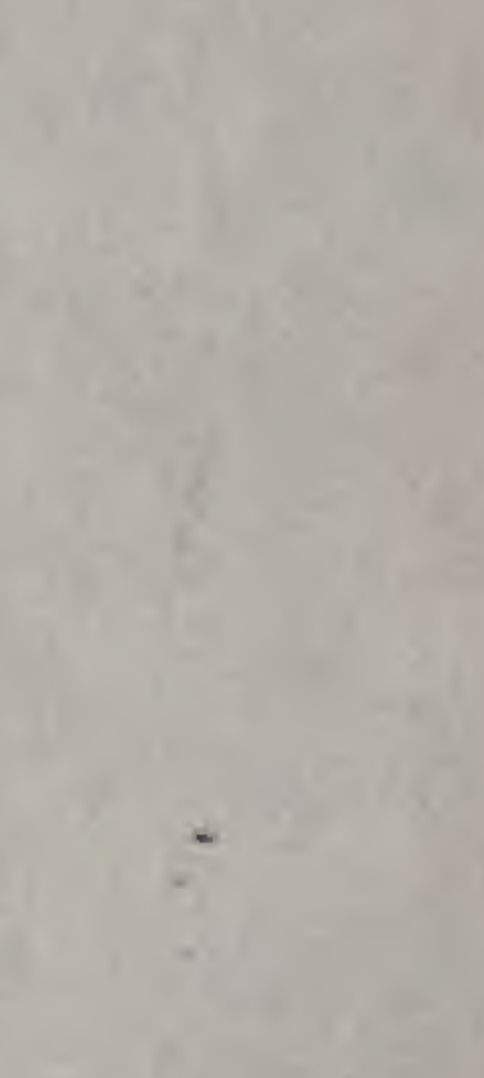
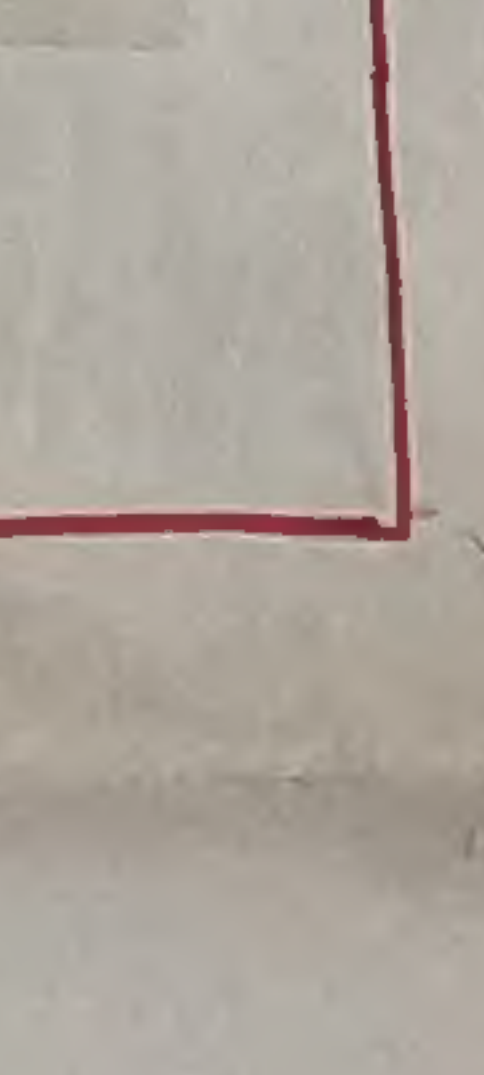
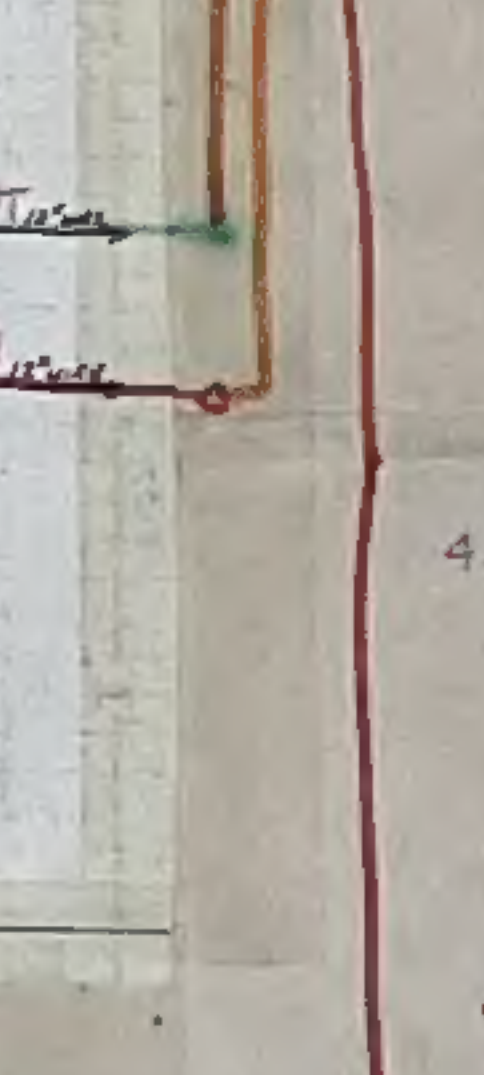
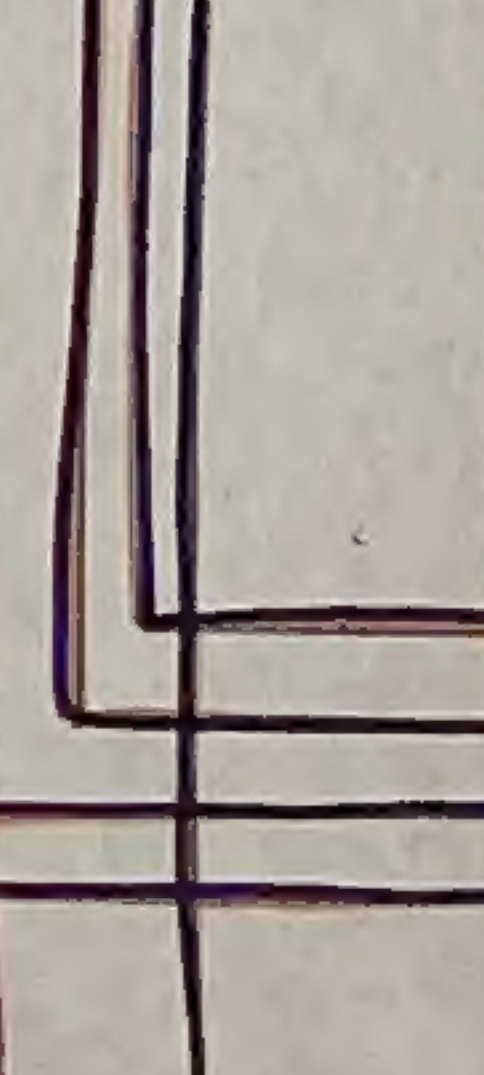
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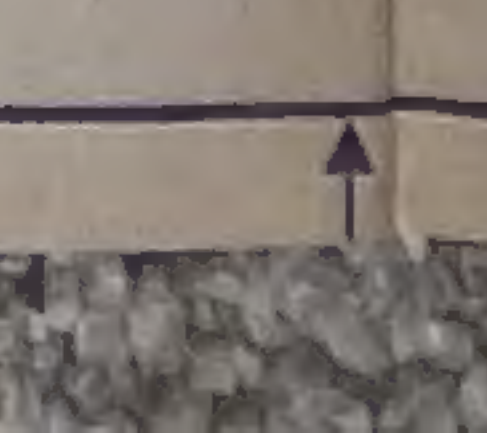
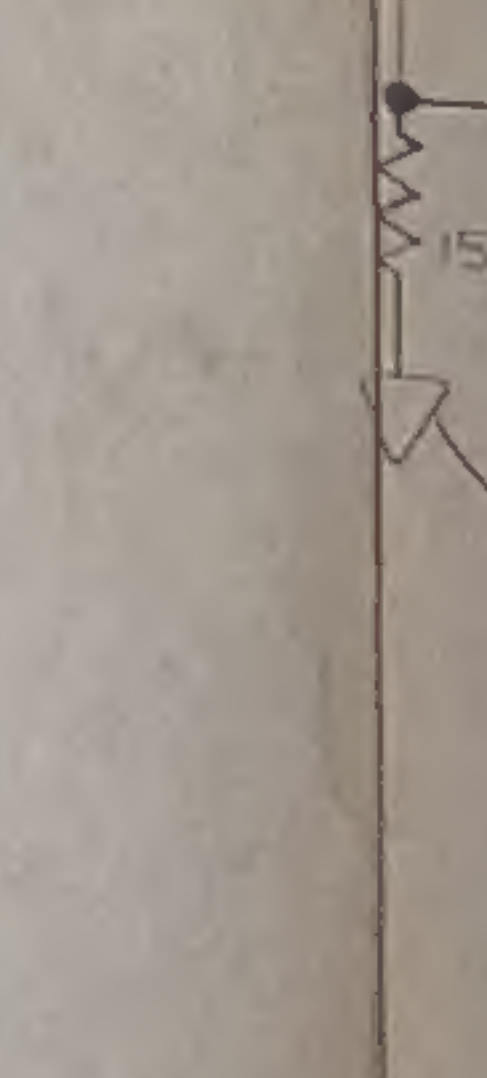
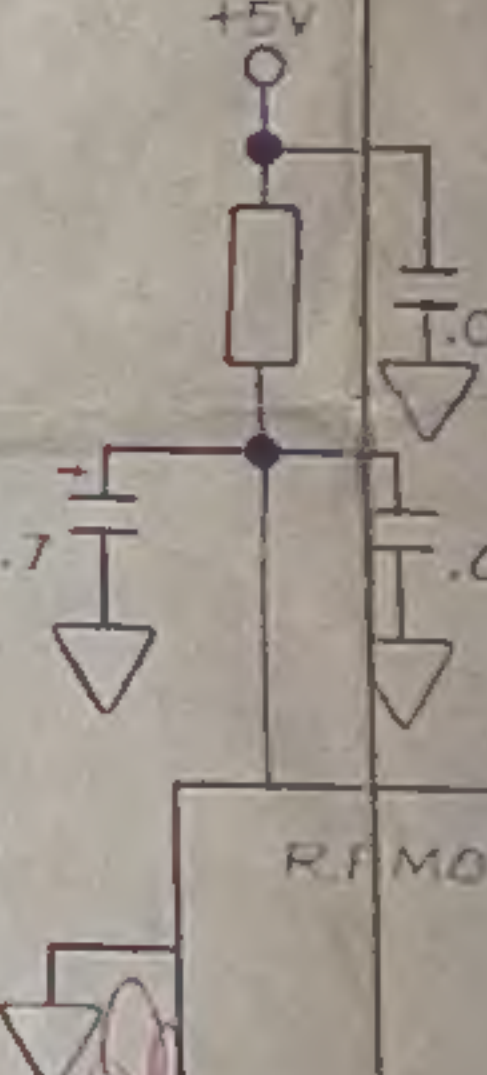
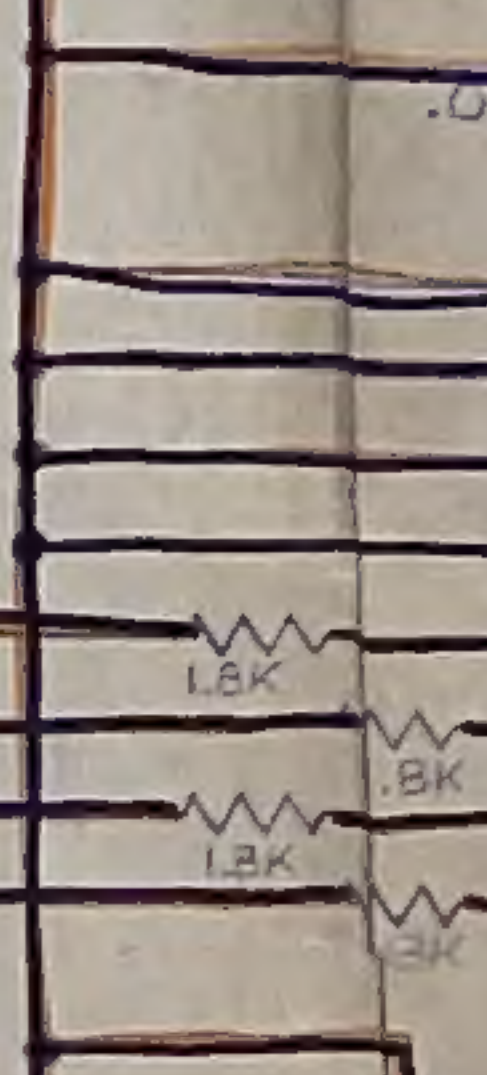
RIGHT

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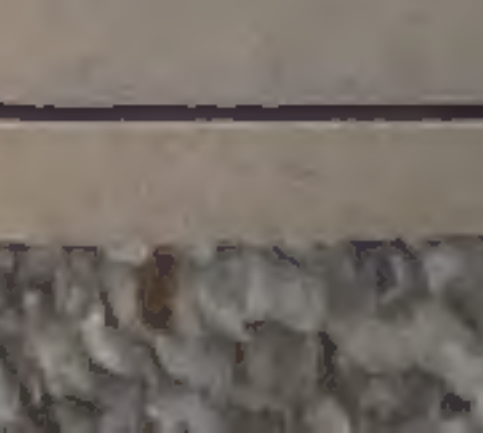
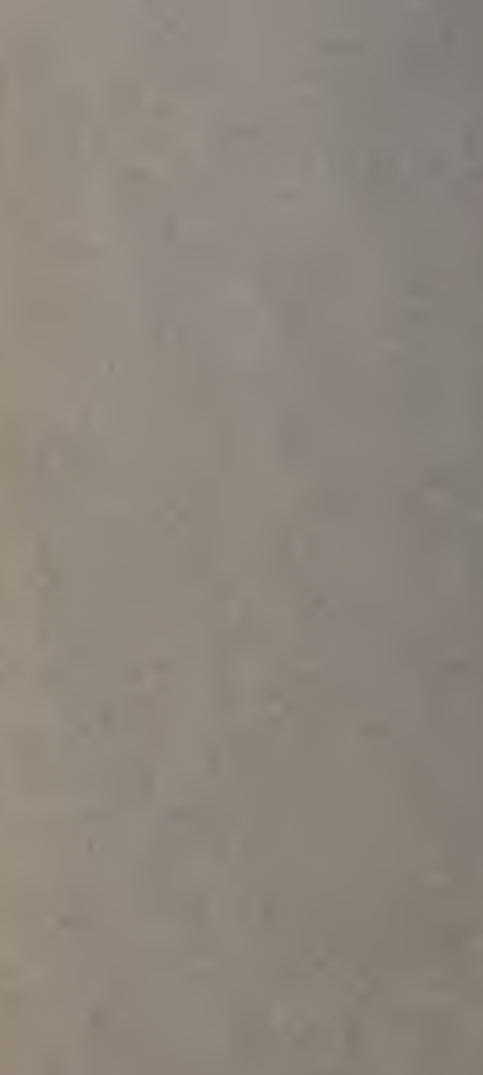
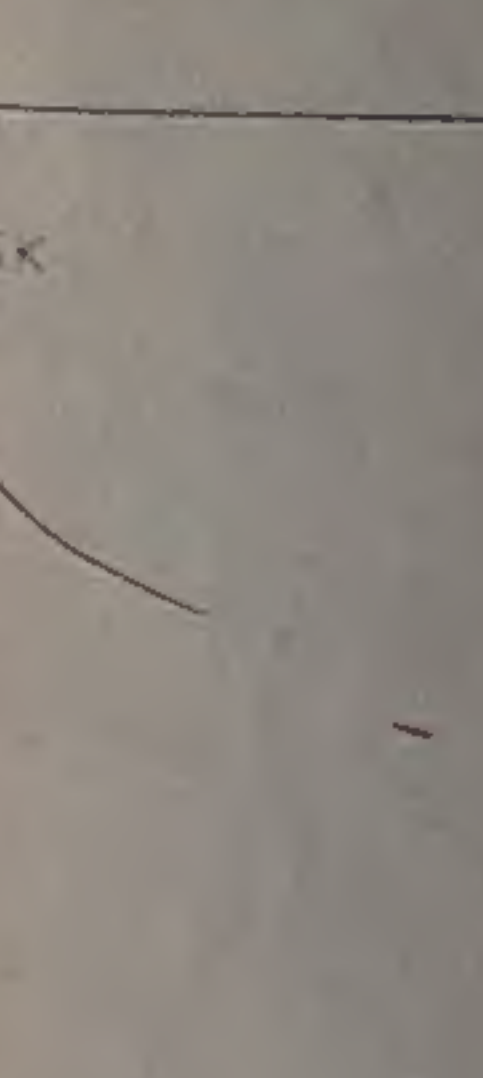
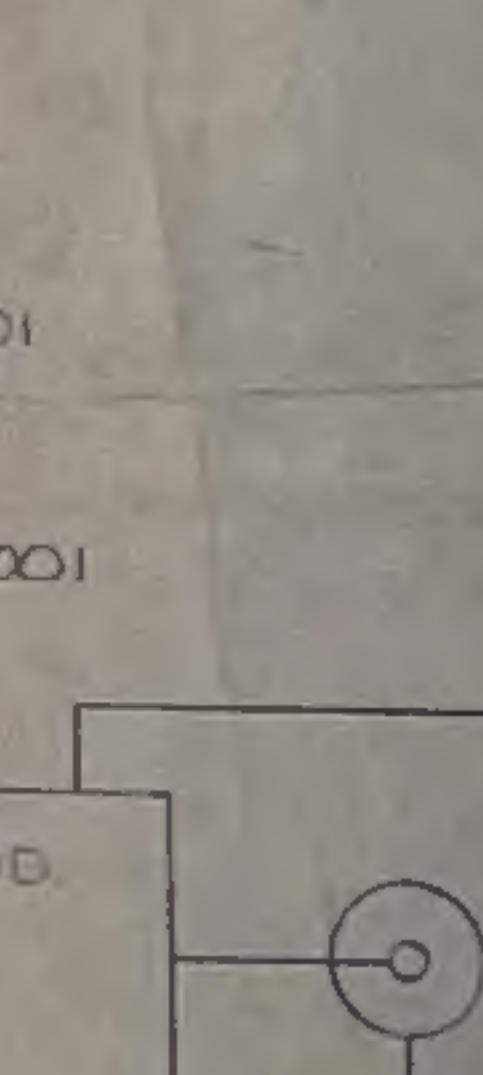
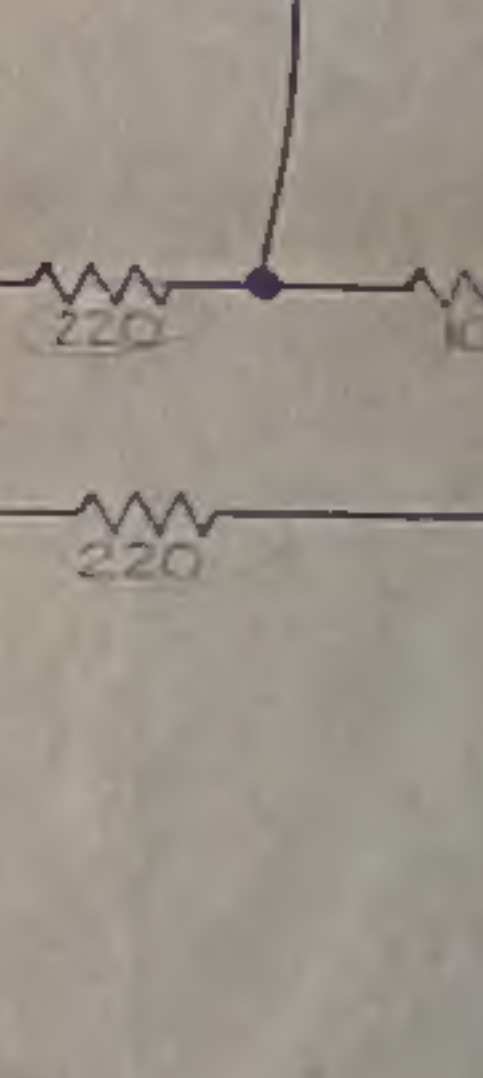
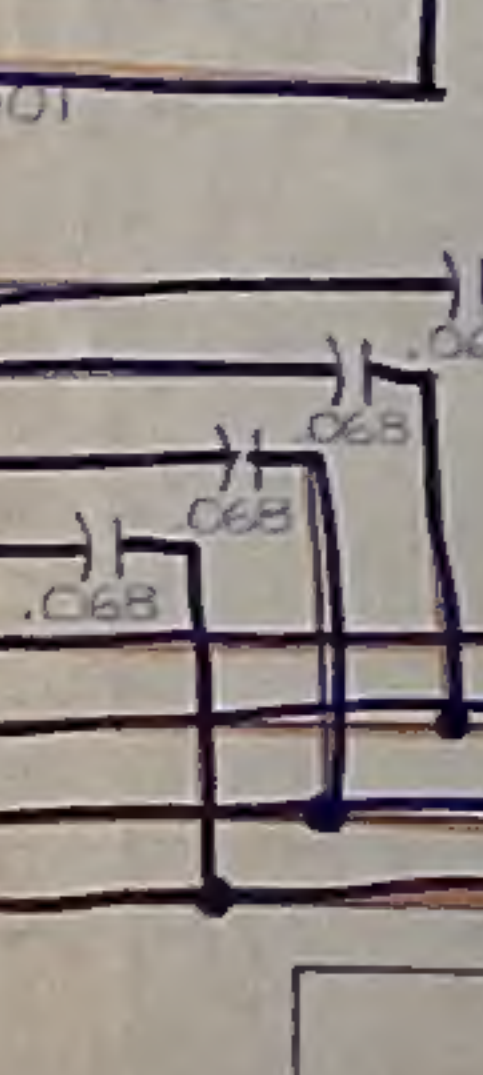
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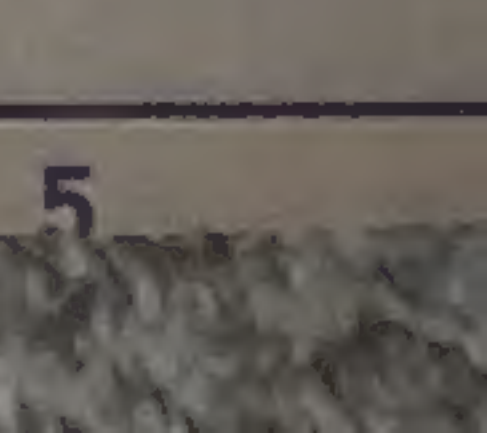
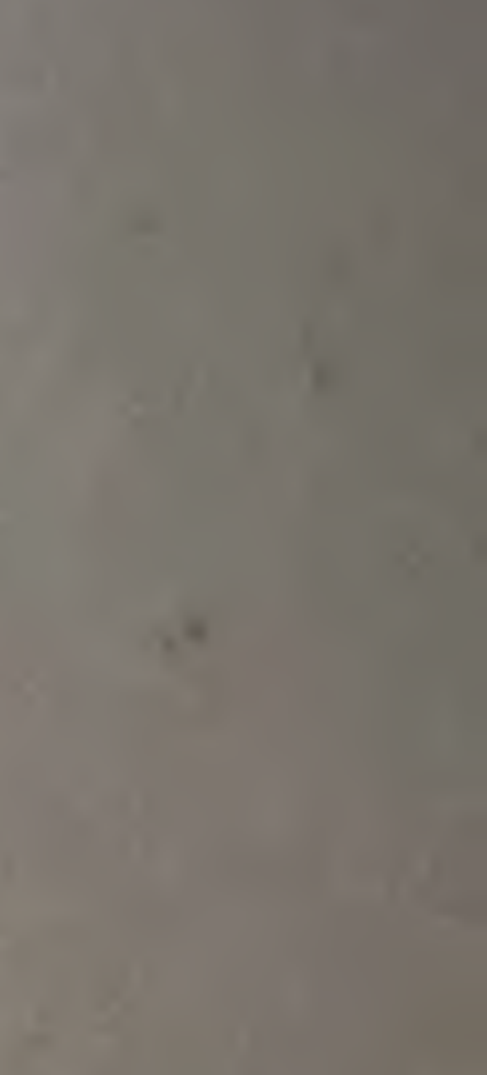
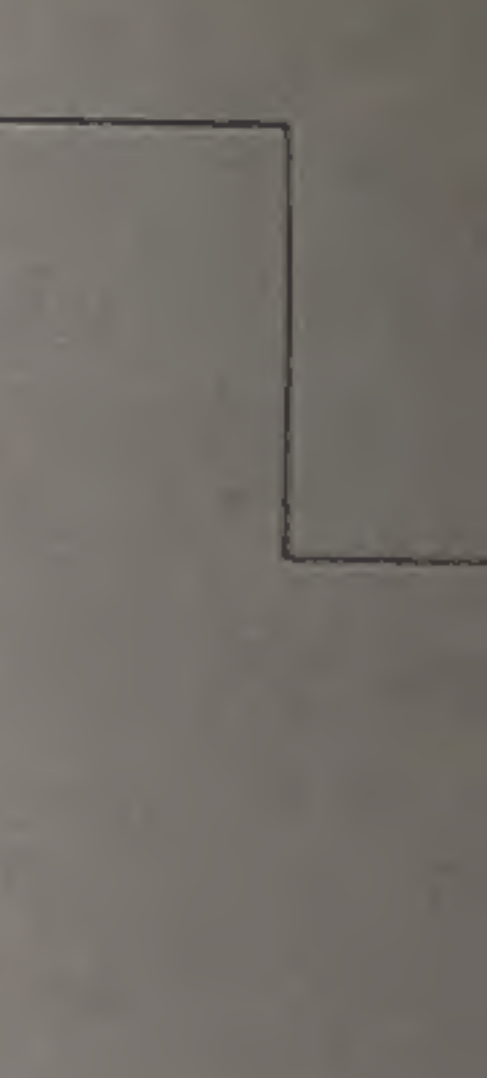
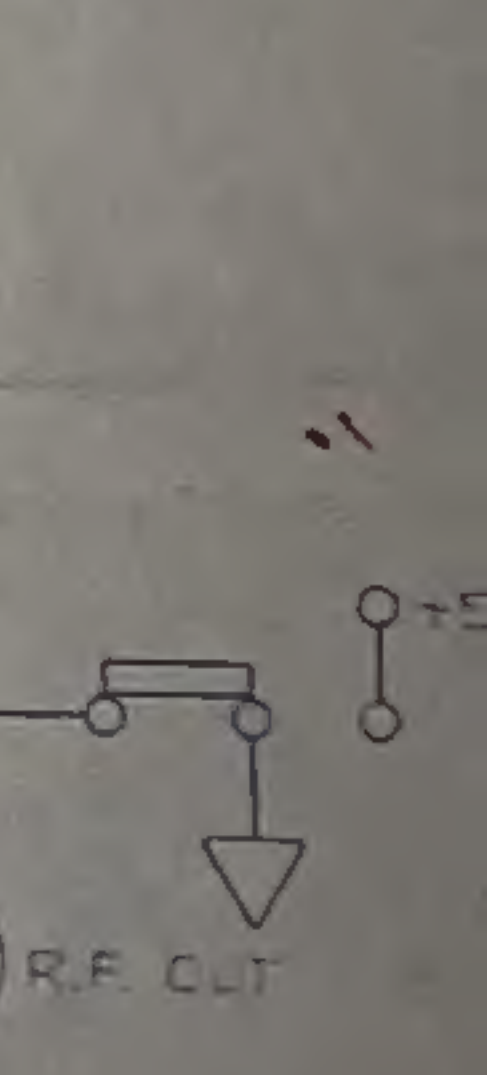
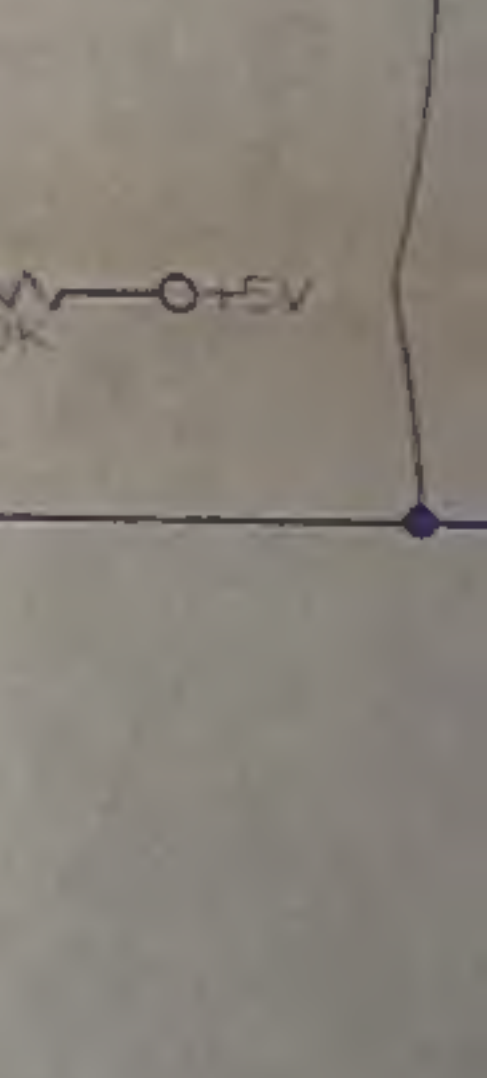
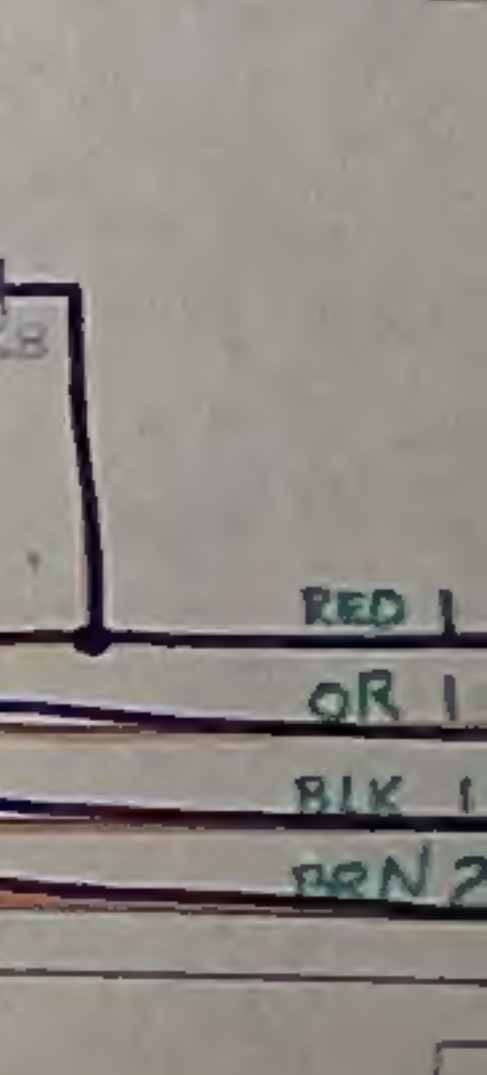
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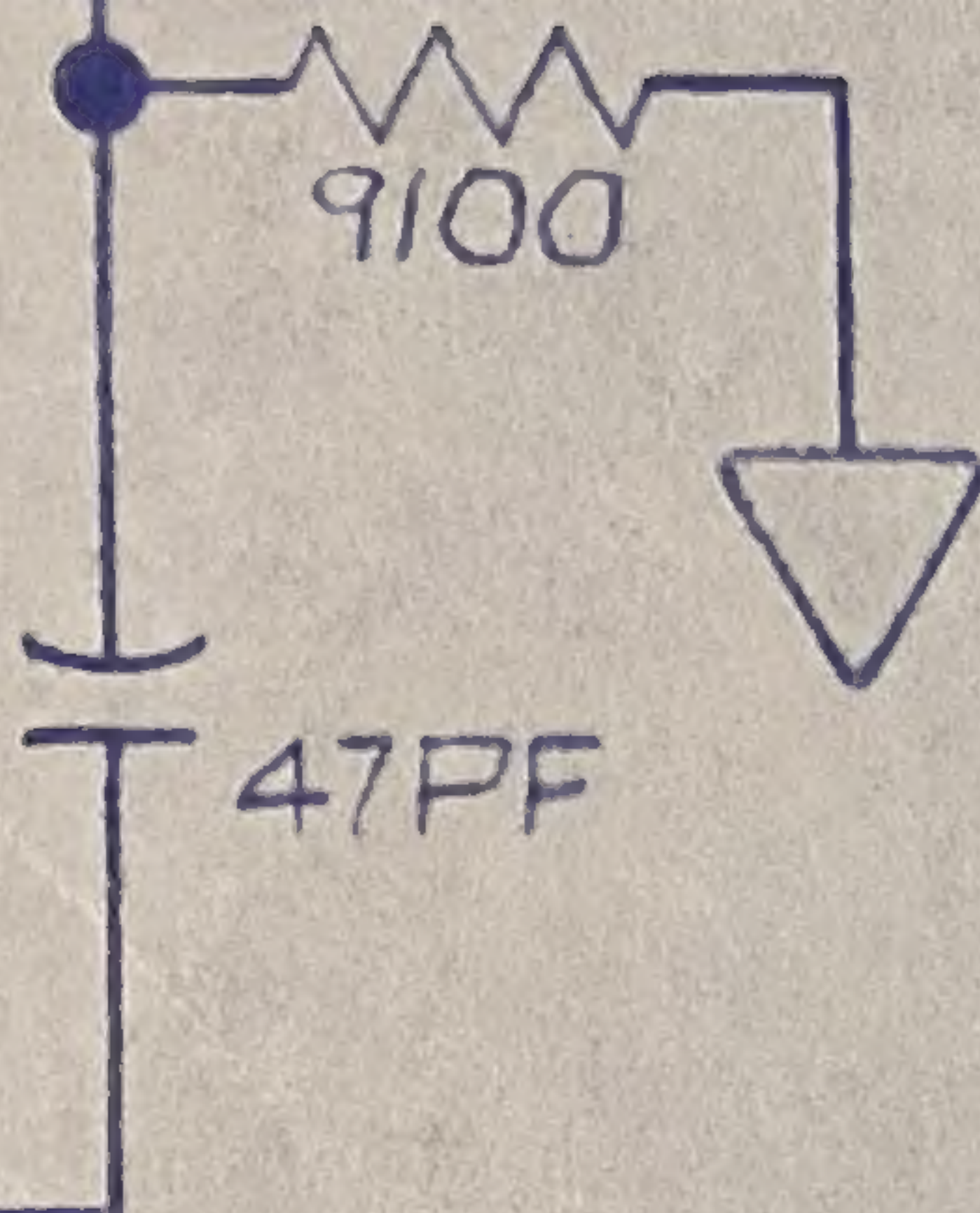
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- JOYSTICK
- POT



LEFT

- RESET
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- RIGHT DIFF. A
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- LEFT DIFF. A
- REMOTE
- LOCAL
- B.W.
- COLOR
- JOYSTICK
- POT





NOV 26 1980

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OUTSTANDING ECNs

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON:

ANGLES = $\pm 1^\circ$

.x = $\pm .1$

.xx = $\pm .03$

SURFACE FINISH ☒ .xxx = $\pm .005$

MATERIAL:

FINISH:

DO NOT SCALE
DRAWING

DRAWN BY

DATE

Tony Powell 11/12/80

CHECKED

ENGINEER

PROJECT ENGINEER

MFG ENGINEER



Atari, Inc.
1265 Borregas Avenue
Sunnyvale, Calif. 94086



A Warner Communications Company

TITLE

SIZE

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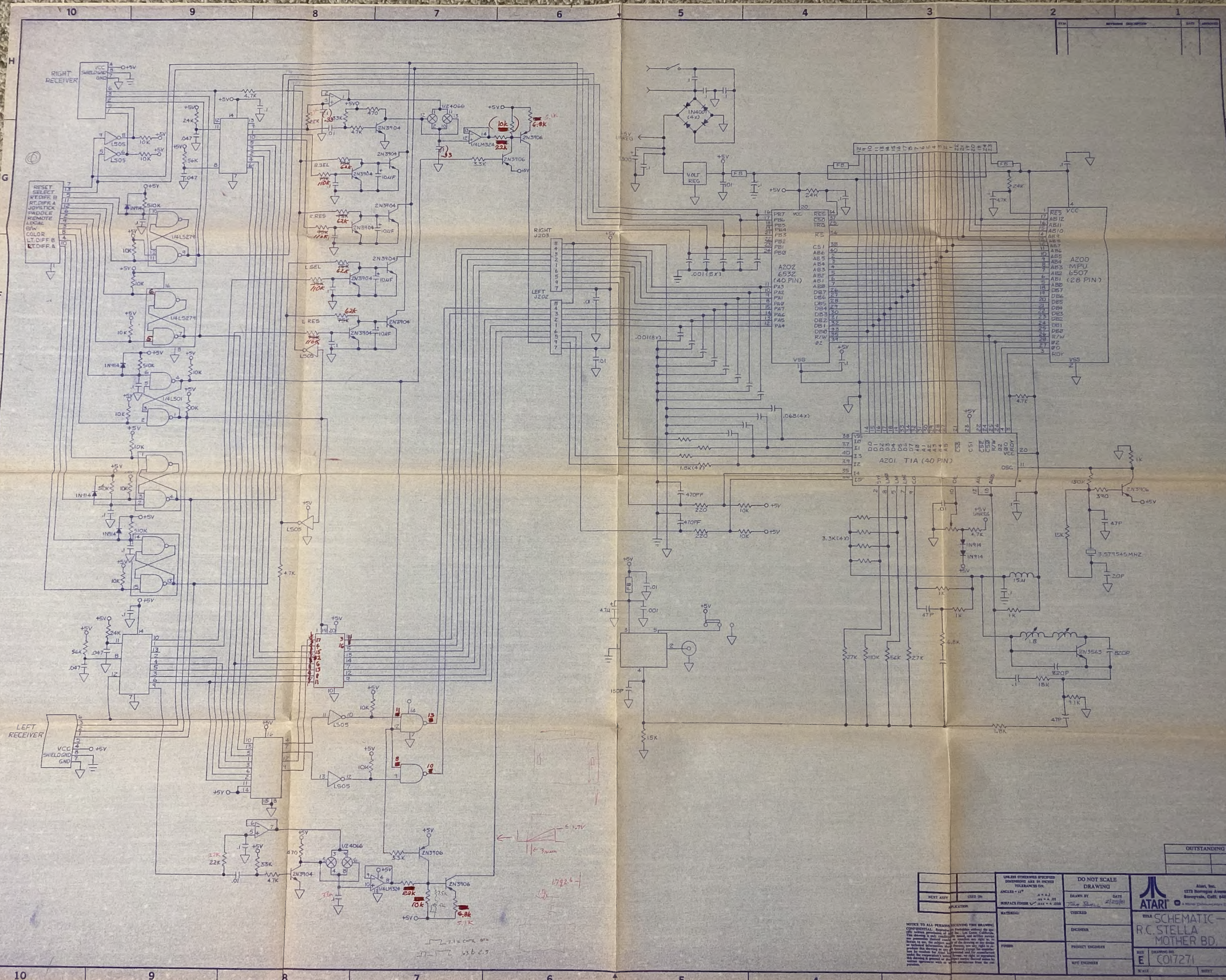
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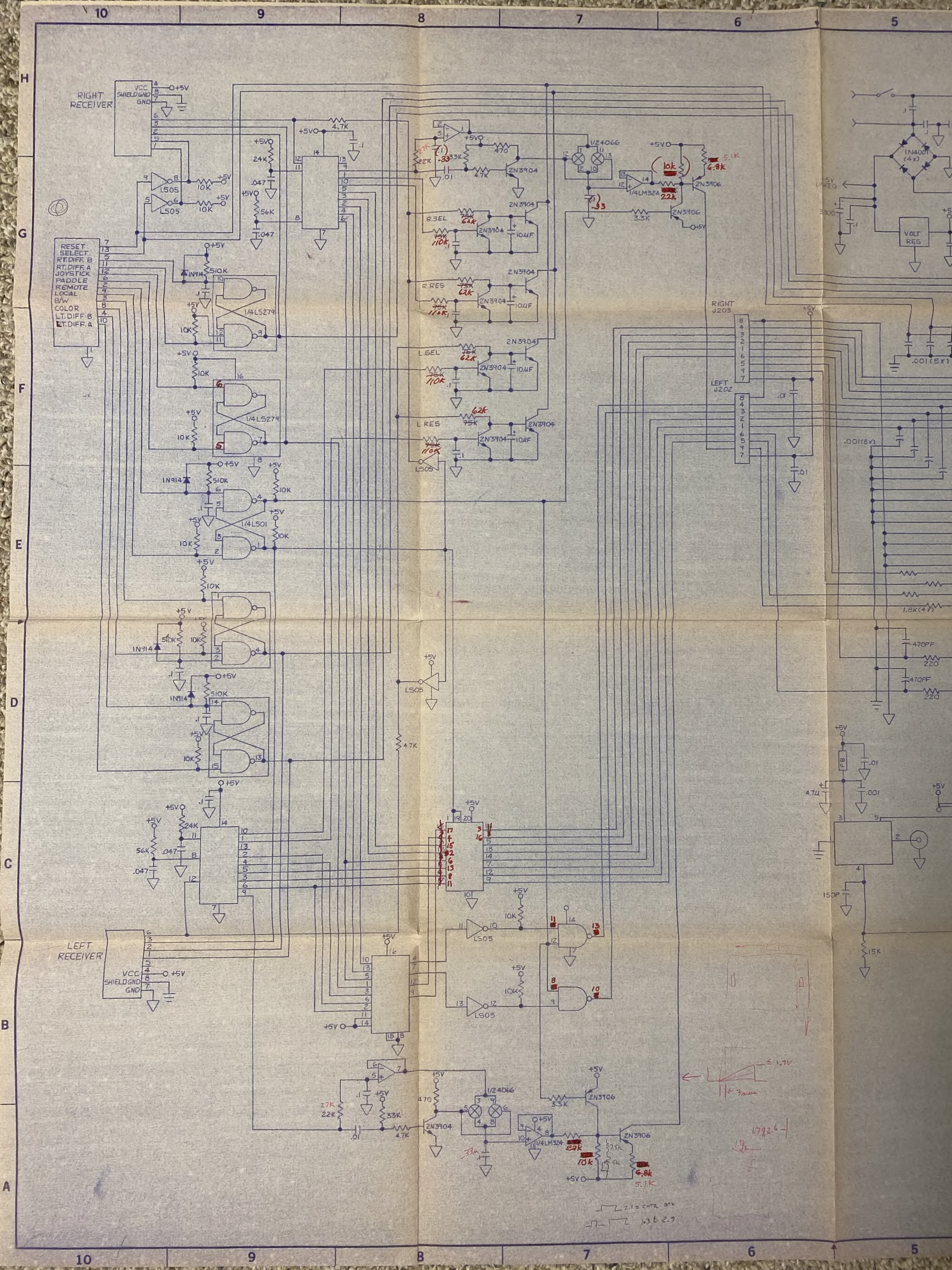
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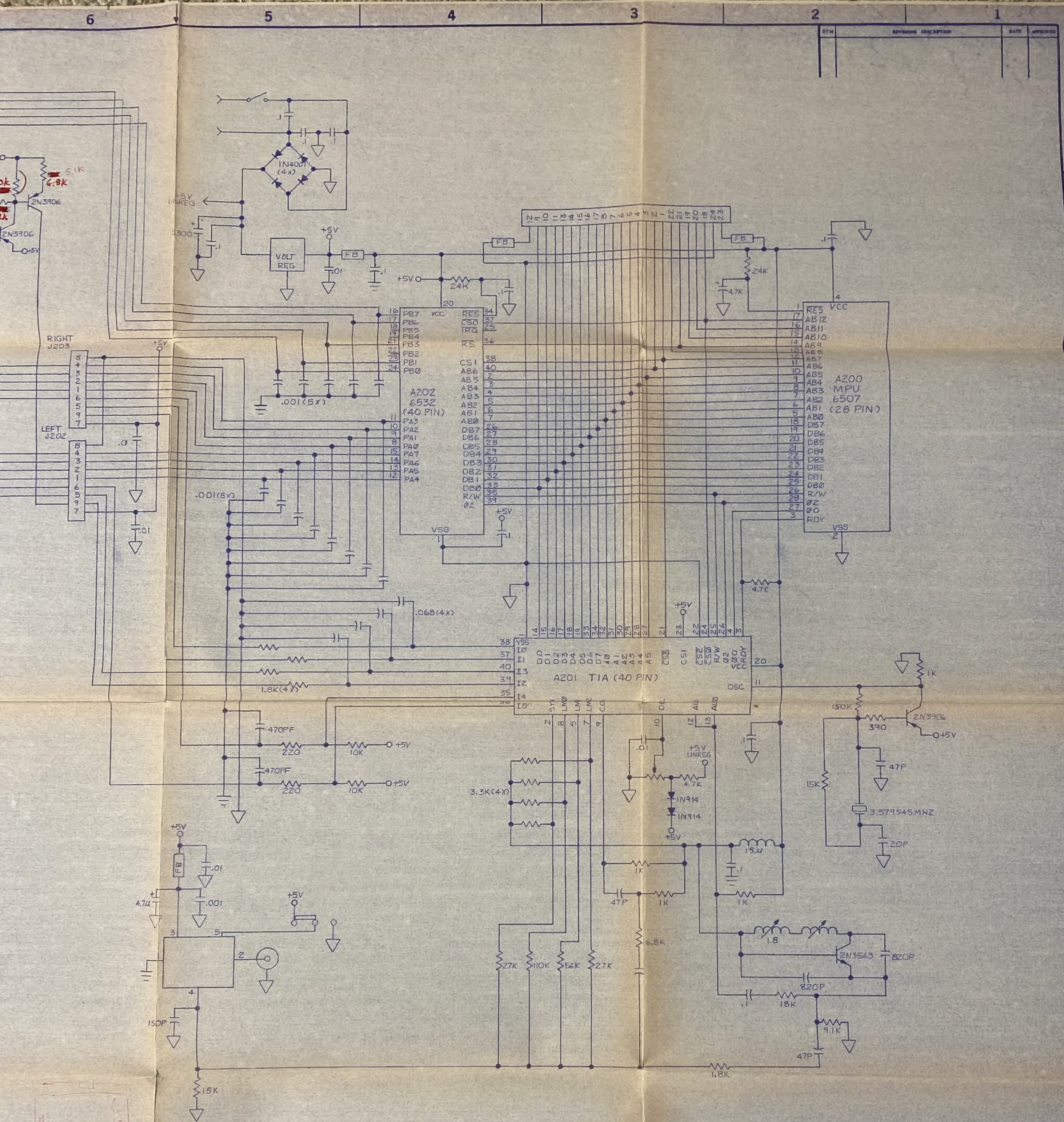
SHEET

OF



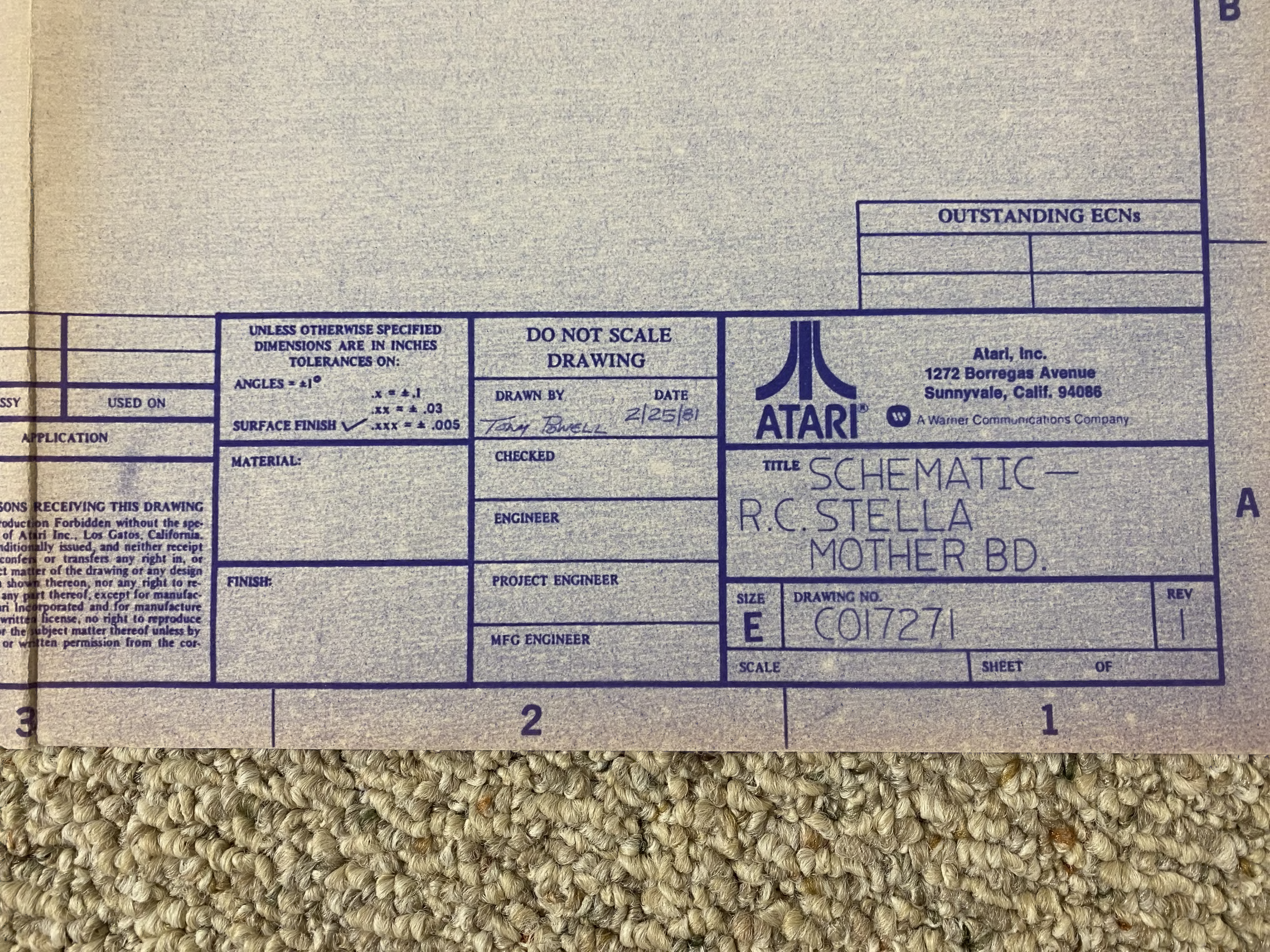
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UNLESS OTHERWISE SPECIFIED DIMENSIONS IN INCHES TOLERANCES ON:		ANGLES - 1°	ASSEMBLY
MATERIAL		DISCRED	ENGINEER
FINISH		PROJECT ENGINEER	APPROVED
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TITLE SCHEMATIC - R.C. STELLA MOTHER BD.		DATE	REV
E 0017271		DATE	REV
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ANGLES	±.1°	DRAWN BY	DATE		
SURFACE FINISH	SEE A.008	CHECKED	2/25/81		
MATERIAL		ENGINEER			
FINISH		PROJECT ENGINEER		<p>SIZE E DRAWING NO. C017271</p> <p>SCALE SHEET OF</p>	
		MFG ENGINEER			



OUTSTANDING ECNs

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON:

ANGLES = $\pm 1^\circ$
SURFACE FINISH ☒ $.x = \pm .1$
 $.xx = \pm .03$
 $.xxx = \pm .005$

DO NOT SCALE
DRAWING

DRAWN BY DATE
Tony Powell 2/25/81



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MATERIAL:

CHECKED

TITLE SCHEMATIC —
R.C. STELLA
MOTHER BD.

FINISH:

PROJECT ENGINEER

MFG ENGINEER

SIZE E DRAWING NO. C017271 REV 1

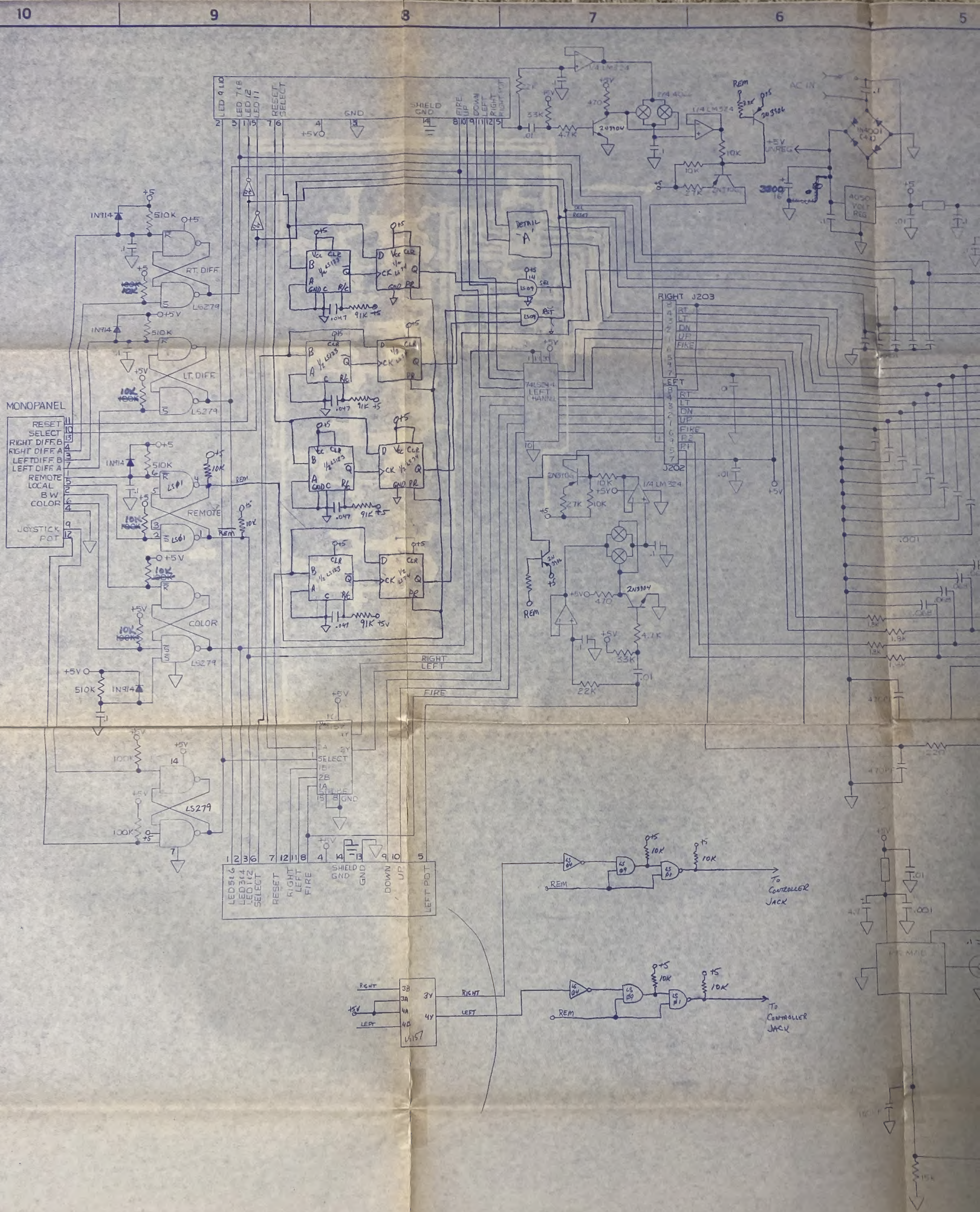
SCALE SHEET OF

3

2

1

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47PF

JAN 20 1981

PRELIMINARY
For Reference Only

OUTSTANDING ECNs

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON:

ANGLES = $\pm 1^\circ$

.x = $\pm .1$

.xx = $\pm .03$

SURFACE FINISH ✓ .xxx = $\pm .005$

DO NOT SCALE
DRAWING

DRAWN BY

DATE



Atari, Inc.
1265 Borregas Avenue
Sunnyvale, Calif. 94086

A Warner Communications Company

MATERIAL:

CHECKED

ENGINEER

TITLE

SCH.— MAIN BD.
R.C.COMMANDER

FINISH:

PROJECT ENGINEER

MFG ENGINEER

SIZE

E

DRAWING NO.

CA016911

REV

1

SCALE



SHEET

OF

SHEET OF

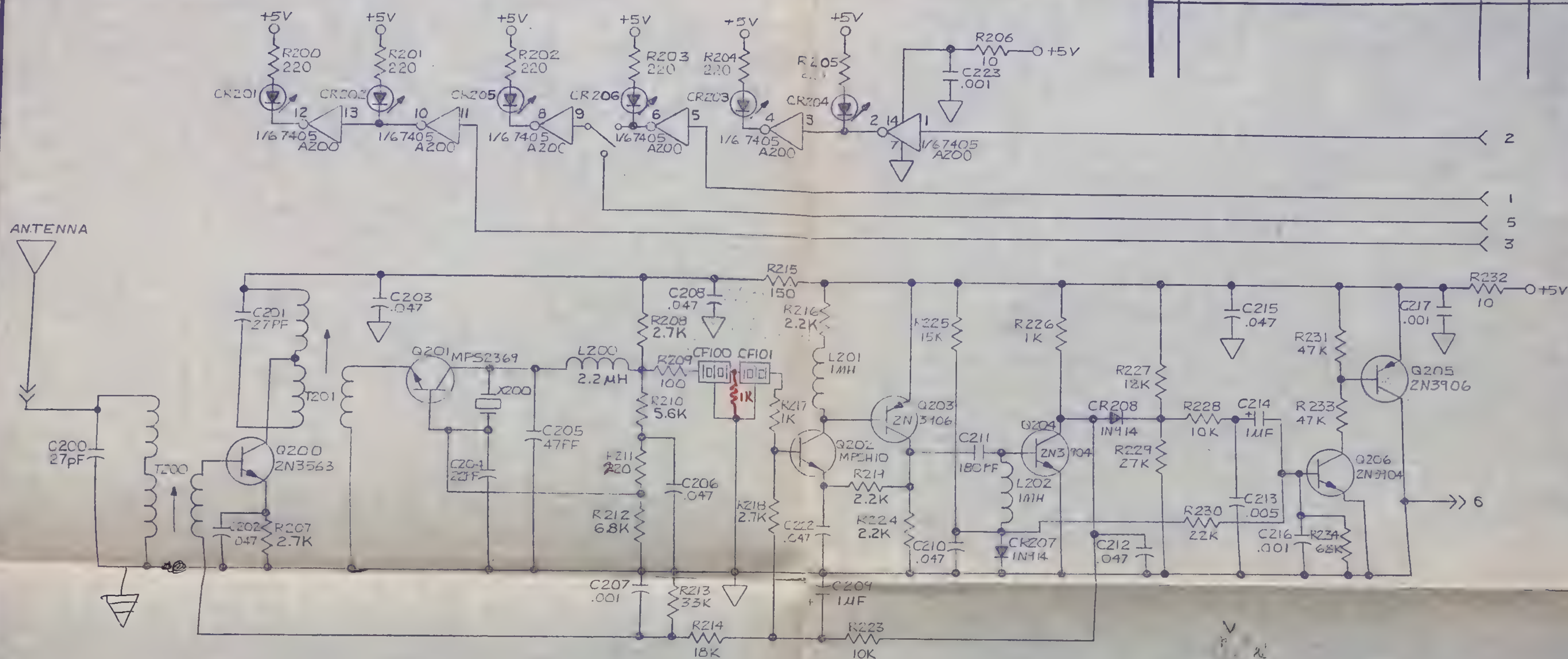


MAR 4 1981

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:	DO NOT SCALE DRAWING	 Atari, Inc. 1265 Borregas Avenue Sunnyvale, Calif. 94086  A Warner Communications Company
NEXT ASSY	USED ON	ANGLES = ±1° .x = ± .xx = ± SURFACE FINISH ✓ xxx = ±	DRAWN BY DATE T. POWELL 2/18/81	
APPLICATION		MATERIAL:	CHECKED	TITLE PCB SUB. ASSY.
			ENGINEER	R.C.COMMANDER LEFT
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING		FINISH:	PROJECT ENGINEER	
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				SIZE C
				DRAWING NO CA016832
				SCALE
				SHEET OF

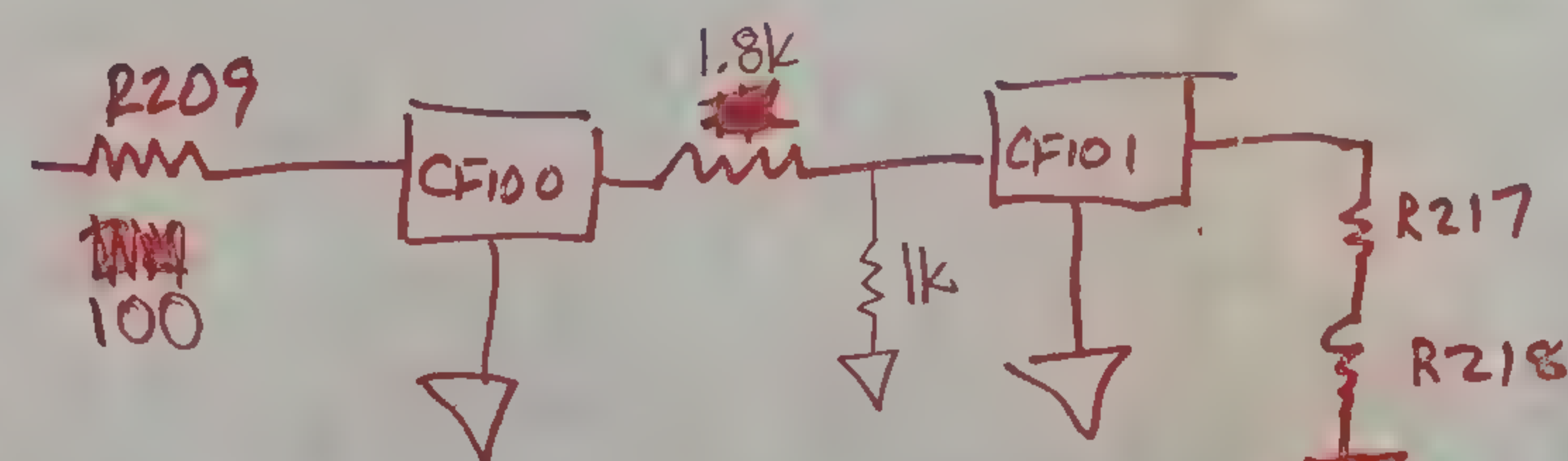
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CHG R209
TO 2K

CHG 1K THAT
GOES TO GND
TO 1K FROM OUTPUT OF CF100
TO INPUT OF CF101



NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES ON

ANGLES = $\pm 1^\circ$

SURFACE FINISH ✓

MATERIAL

FINISH:

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DRAWING

DRAWN BY T. POWELL DATE 12/3/80

CHECKED

ENGINEER

PROJECT ENGINEER

MFG ENGINEER



1-29-81 Atari, Inc.
1265 Borregas Avenue
Sunnyvale, Calif. 94086

 A Warner Communications Company

TITLE SCH.—
R.C. COMMANDER
RECEIVER BD.

SIZE

DRAFTING NO.

R

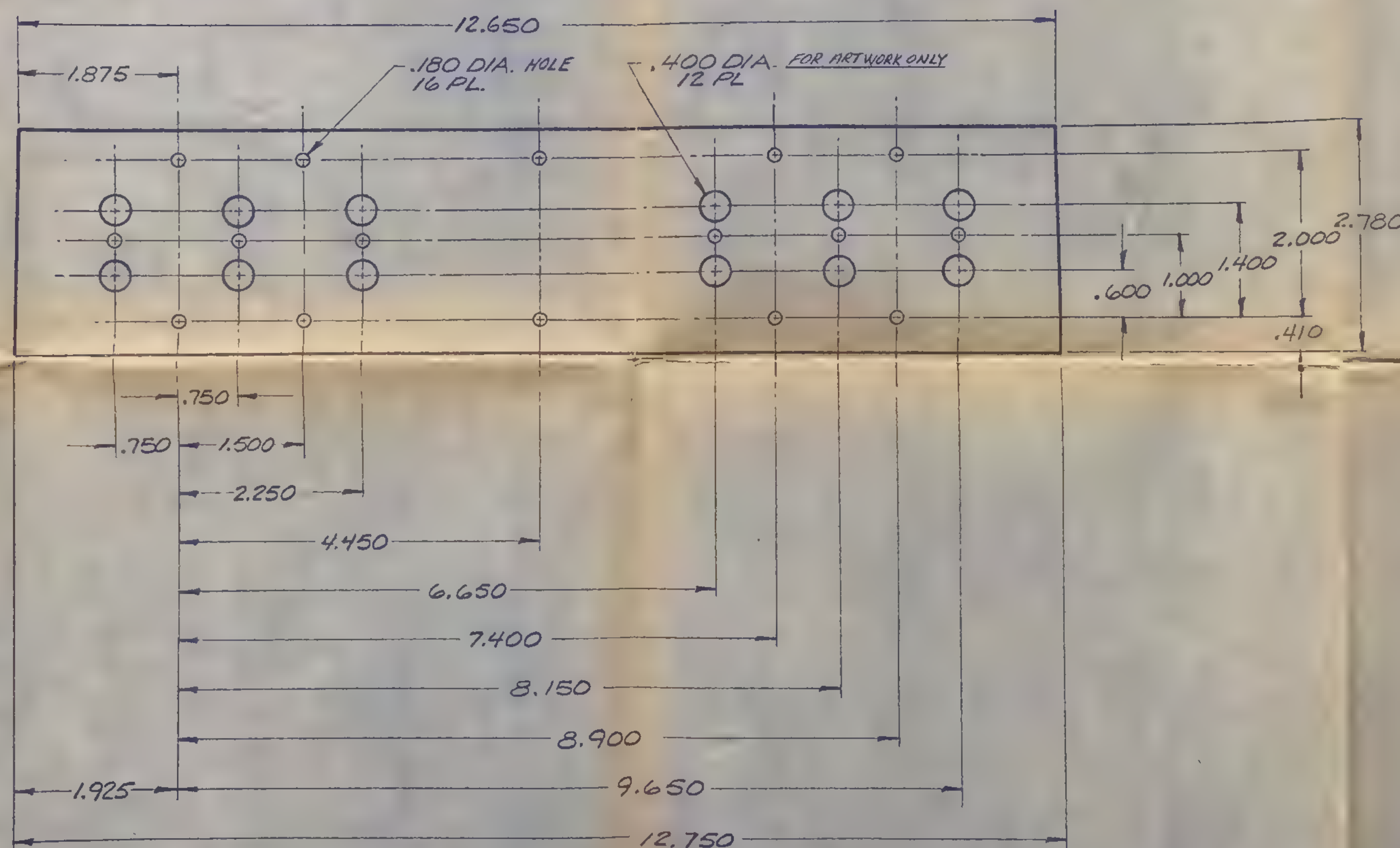
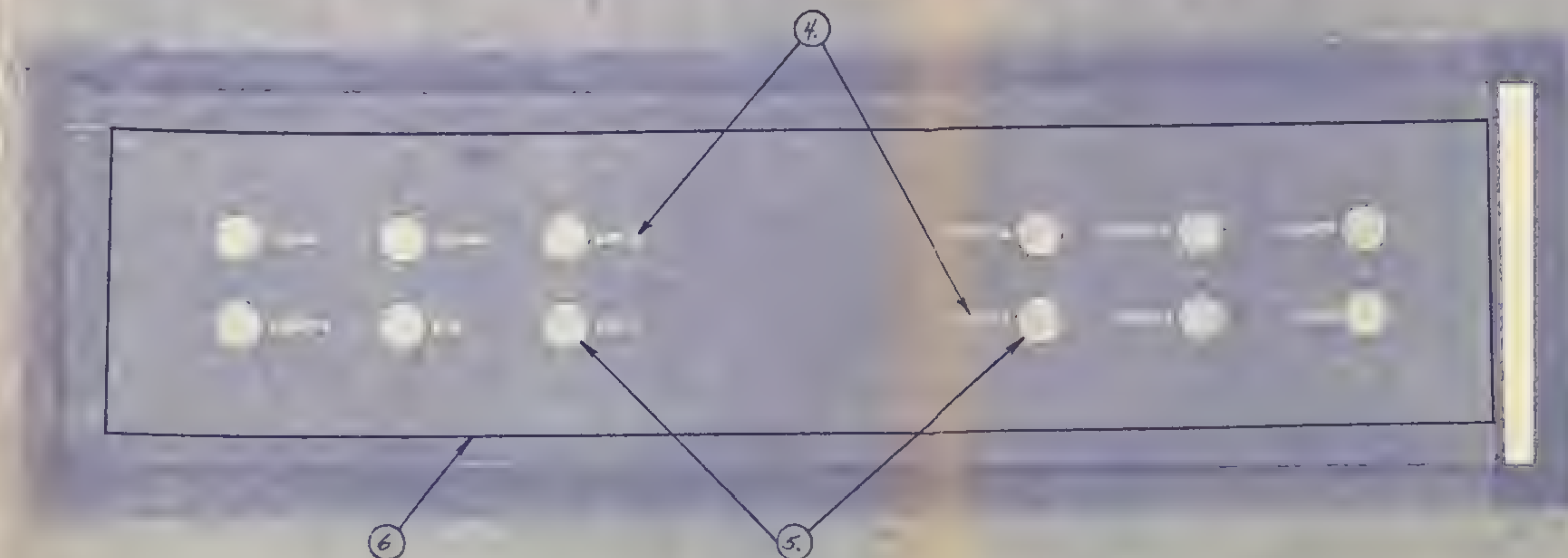
the

SCALE

SMULT

5

SYM	REVISIONS DESCRIPTION	DATE	APPROVED
1	PROTO RELEASE	11/19/80	



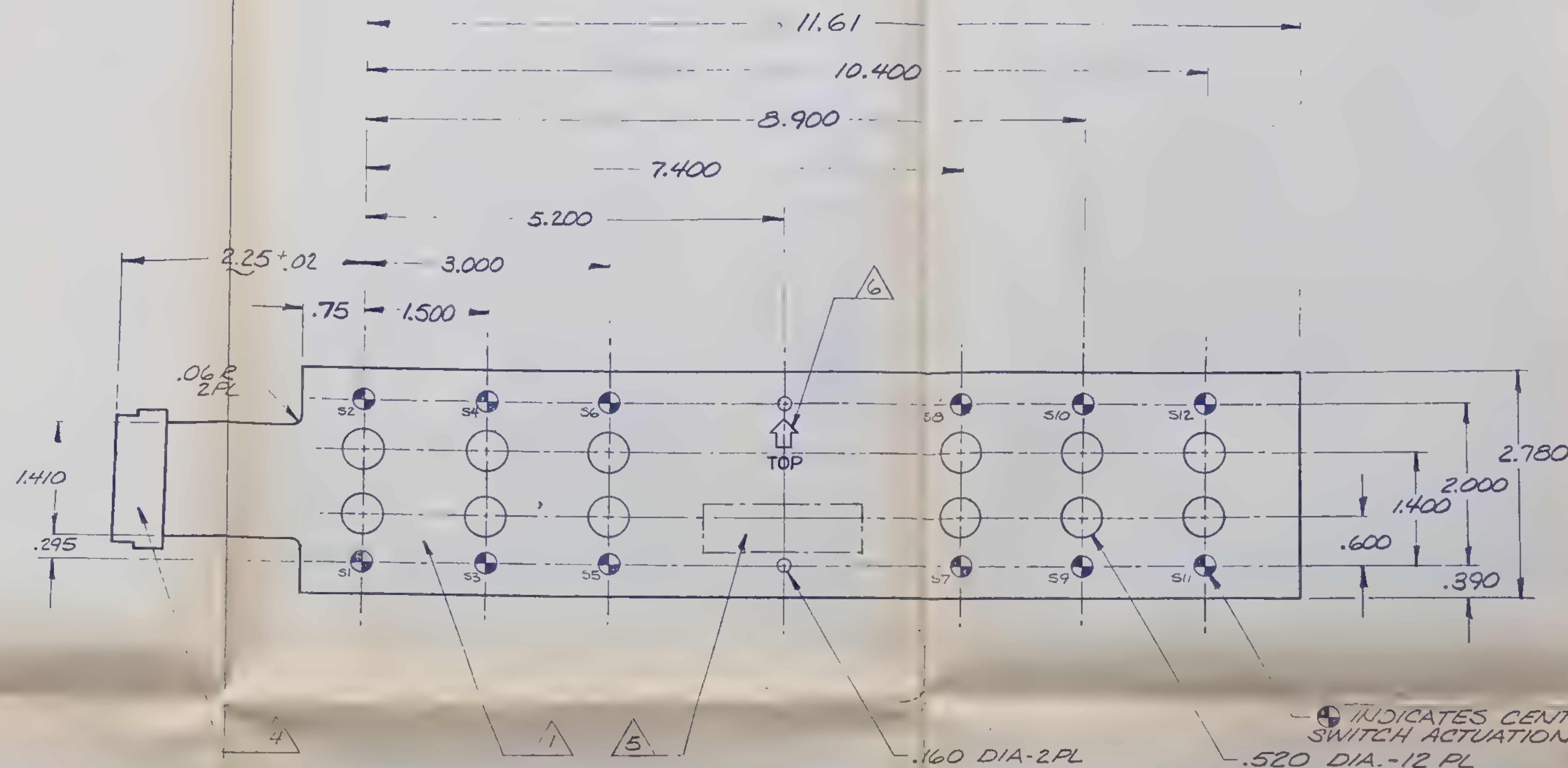
NOTES:

1. VENDOR MUST SUBMIT 12 FIRST ARTICLES TO ENGINEERING FOR WRITTEN SIGN OFF PRIOR TO PRODUCTION RUN OF PARTS.
2. SHEET 2 IS THE FILM ARTWORK.
3. MATERIAL: .005 VINYL CLEAR GLOSS FINISH
4. ALL WORDS (LOCAL, REMOTE, COLOR, ETC.) TO BE PRINTED WITH FLUORESCENT WHITE INK.
5. SOLID CIRCLES BESIDE WORDS TO BE CLEAR.
6. BACKGROUND COLOR TO MATCH PLASTIC CHIP CYCLOC TESTER SUPPLIED BY ATARI.
7. PRINTING TO BE TOP-SURFACE PRINTING.
8. NO ADHESIVE REQUIRED.

DEC 8 1980
PRELIMINARY
For Reference Only

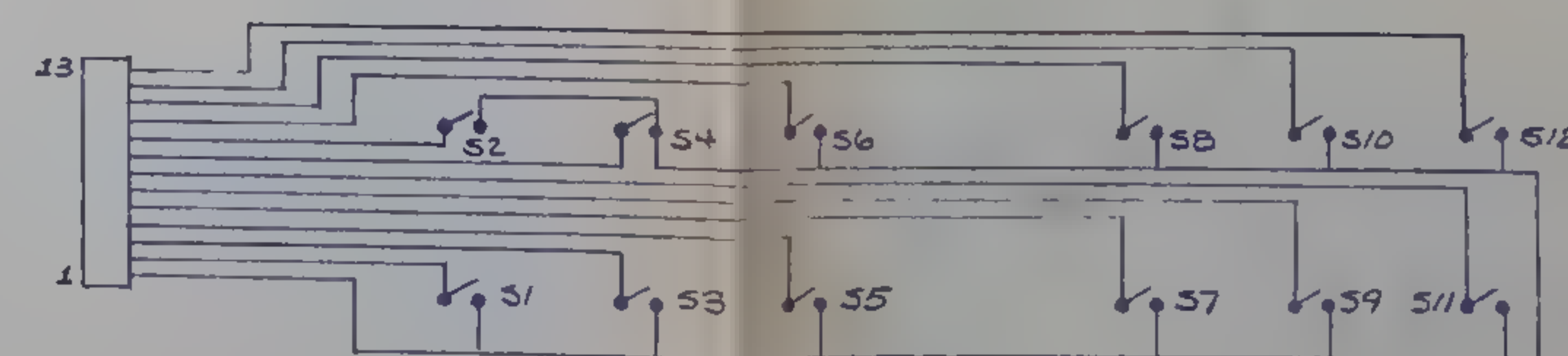
OUTSTANDING ECNs

NEXT ASSY USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: ANGLES - $\pm 1^\circ$.125" & $\pm .010$ SURFACE FINISH - $\pm .005$	DO NOT SCALE DRAWING DRAWN BY: <i>ENH/ST</i> DATE: <i>11/19/80</i> CHECKED: <i>DN/ST</i> ENGINEER:	ATARI 1265 Borregas Avenue Sunnyvale, Calif. 94085 TITLE: 1X2700 CONSOLE SWITCH PANEL LABEL
NOTICE TO ALL PERSONS RECEIVING THIS DRAWING CONFIDENTIAL: Reproduction forbidden without the specific written permission of Atari, Inc., Sunnyvale, Califor- nia. This drawing is only conditionally issued, and neither re- ceipt nor possession thereof confers or transfers any right in or license to use, the subject matter of the drawing or any design or technical information shown thereon, nor any right to reproduce the drawing as any part thereof, except for manufacture by vendors of Atari Incorporated and for manufacture under the corporation's written license. No right to reproduce this drawing is granted or the subject matter thereof unless by written agreement with or written permission from the corporation.		FINISH: PROJECT ENGINEER: MFG ENGINEER:	SIZE: D DRAWING NO: CO16810 SCALE: FULL SHEET 1 OF 2	REV: I



NOTES: UNLESS OTHERWISE SPECIFIED

- 1 BASE MATERIAL TO BE POLYESTER FILM, 3 LAYERS, ADHESIVE BONDED. TOTAL THICKNESS TO BE .018 ± .003
- 2 TRACES AND SWITCH PADS TO BE CONDUCTIVE INK (SILVER FILLED) SUCH THAT CONTACT RESISTANCE MEASURED AT THE CONNECTOR IS 200 Ω MAX. AFTER 10,000 SWITCH CLOSURES.
- 3 ACTUATION FORCE TO BE 202 ± 102
- 4 CONNECTOR TO BE BERG ELECTRONICS "CLINCHER" PART NO. 65801-013 OR ATARI ENGINEERING APPROVED EQUIVALENT.
- 5 ATARI PART NO. AND REVISION TO APPEAR IN NOTED AREA.
- 6 NOTED GRAPHICS TO BE IN AREA AND ORIENTATION SHOWN.



SCHEMATIC

CA016515	EX2700
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
ANGLES ± .41°
31 ± .01
SURFACE FINISH 32 ± .005

DO NOT SCALE
DRAWING

DRAWN BY H. Lee DATE 12/20/81

CHECKED [Signature] 2/10/82

ENGINEER [Signature]

PROJECT ENGINEER [Signature] 6/23/81

MFG ENGINEER

MATERIAL: 1 2 3

FINISH:

Atari, Inc.
1272 Borregas Avenue
Sunnyvale, Calif. 94086

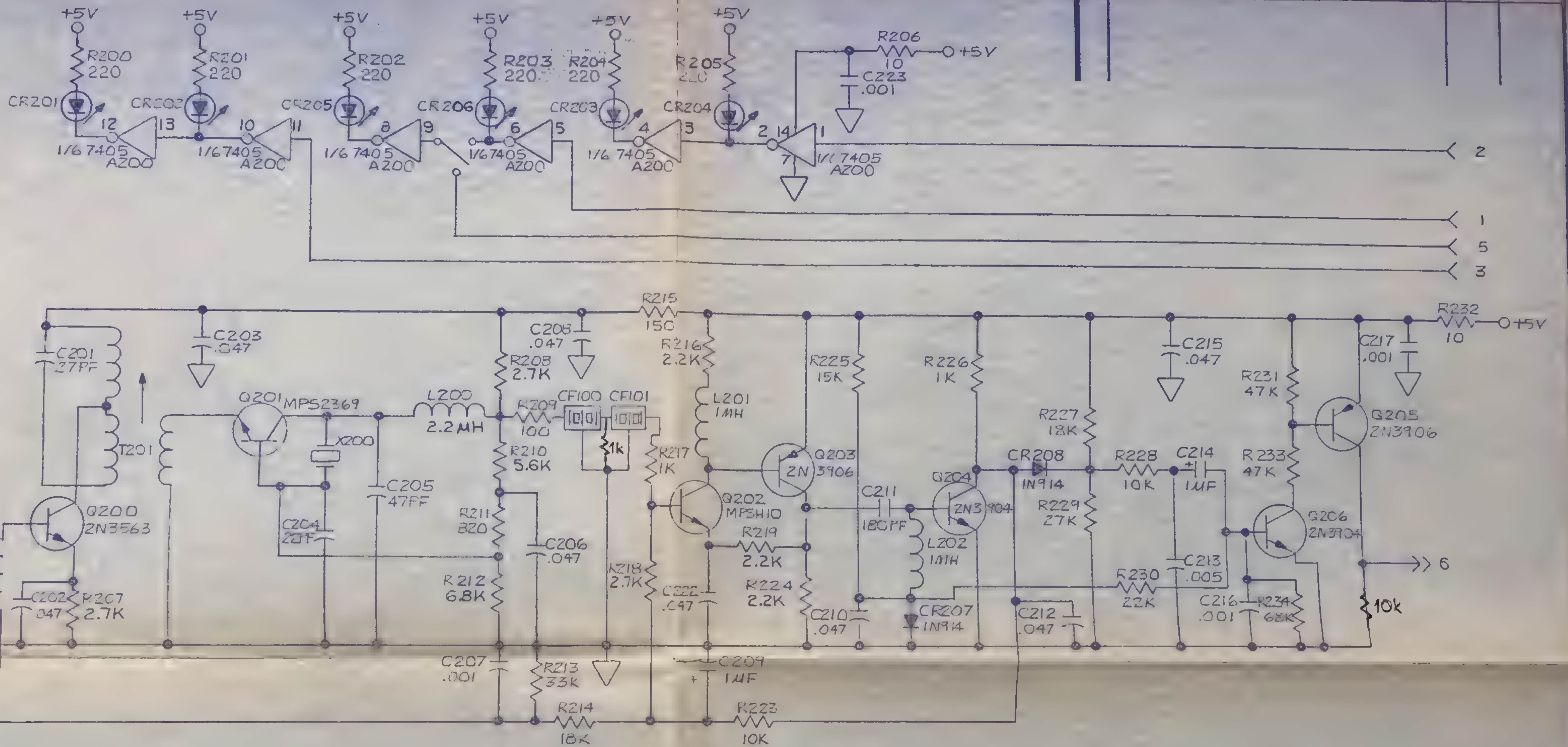
TITLE
MEMBRANE SWITCH PANEL

SIZE D DRAWING NO. CA016500

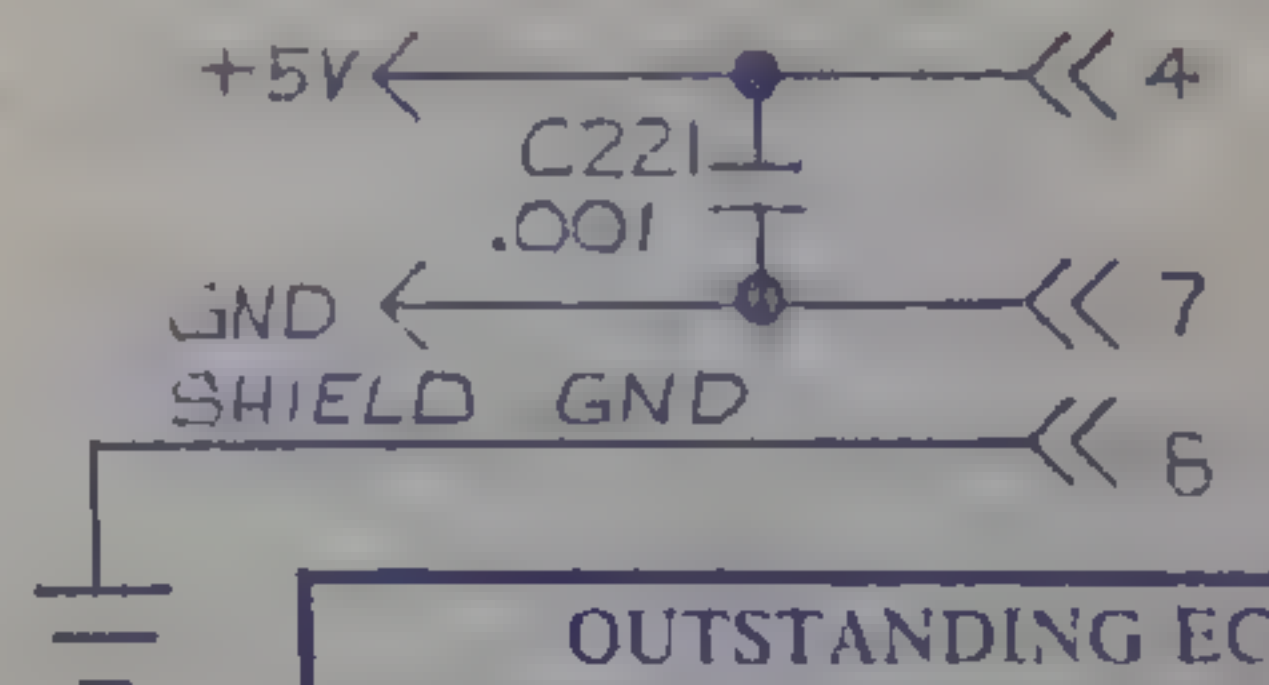
SCALE 1/201 SHEET 1 OF 1

OUTSTANDING E.C.N.s

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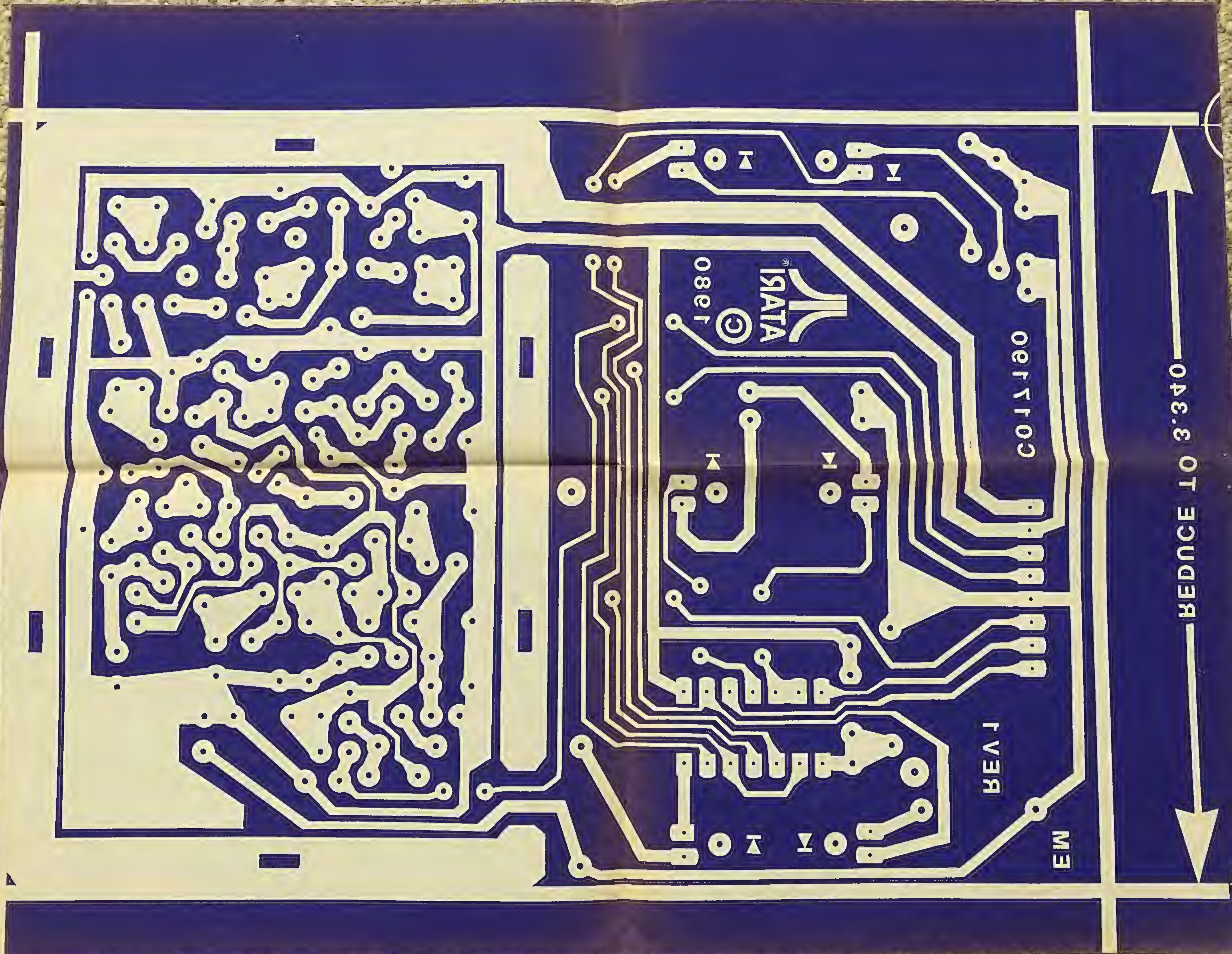


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OUTSTANDING ECNs

NEXT ASSY USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON ANGLES = ±1° SURFACE FINISH ✓ MATERIAL FINISH		DO NOT SCALE DRAWING DRAWN BY T. POWELL DATE 12/3/80 CHECKED ENGINEER PROJECT ENGINEER MFG ENGINEER		Atari, Inc. 1265 Borregas Avenue Sunnyvale, Calif 94086 ATARI TITLE SCH.— R.C. COMMANDER RECEIVER BD. SIZE C DRAWING NO. SCALE SHEET	
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ISATA[®]
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048.3 OT EQUDEP

REAR

EW

048.3 OT EQUDEP

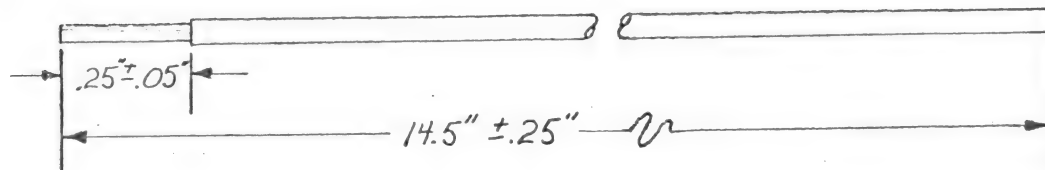
R.C. RECEIVER ANTENNAS

24 PCS. PER DWG. C017237

INSTALL ON ALL EXISTING
RECEIVERS ~~MINIMUM~~

RECEIVER ANTENNA

SPECIFICATIONS:




MATERIAL:

WIRE

20 OR 22 AWG SOLID TINNED COPPER

INSULATION

WHITE PVC OR ENGINEERING APPROVED EQUIVALENT

YM	REVISIONS	DATE	APPROVED			
1	PROTO RELEASE	4/20/81	<i>[Signature]</i>	 ATARI		
				RECEIVER ANTENNA		
				DRAWN BY	ENGINEER, MGR.	MATERIAL
				CHECKED <i>[Signature]</i> 4/20/81	QUAL ASSURANCE	DRAWING NO.
				ENGINEER <i>[Signature]</i> 4/20/81	MFG. ENGINEER.	C017237

	6	1N914	
	4	1N4001	
	1	2N3563	
(V)	3	2N3906 <u>2</u>	2.14 pin
(V)	-1 2	3086	14 pin
(V)	-1	LM324	14 pin
(V)	-2	74LS244	29 pin
(V)	-1	4066	14 pin
(V)	-1	LS158	16 pin
	1	LS01	14 pin
(V)	1	LS279	16 pin
	1	6507 MPD	28 pin
	1	T1A	40 pin
	1	6532	40 pin
	1	XTAL 3.579545 MHz	
	1	4050	16 pin

CAP carbide

24 K

20 .01 uf 62 mylar (V) 2.047 mylar

56 K

2 .01 uf 2 (V)

14 .001 uf

4 .009 uf CAP, EPOXY DIPPED

1 22 pf

1 20 pf

3 47 pf

1 150 pf

2 470 pf

2 820 pf CAP, Polystyrene

2 4.7 uf elec.

4 10 uf 16V (V)

1 2200 " 16V

1 12 1/2 turn Coil L201

1 1.8 uH L202

4 Ferrite Bead L200

L203

L204

L205

- 2	220	Res. Cor. K _W	
- 1	390		
(V) - 2	470	2	MONOPANEL
- 4	1K		1N914 4
- 5	18K		510K 4
- 5	3.3K		100K 7
(V) - 4	4.7K	2	.1 μ F 4
- 1	6.8K		74LS00
- 1	9.1K		
(V) - 8	10K	6	
- 2	15K		
- 1	18K		
(V) - 2	22K	2	
- 2	24K		
(V) - 4	27K	2	
- 1	56K		
(V) - 2	33K	2	
(V) - 4	75K	4	
(V) - 10	100K	4	
- 1	110K		
- 1	150K		
- 1	510K		
- 1	500K	VARIBLE	

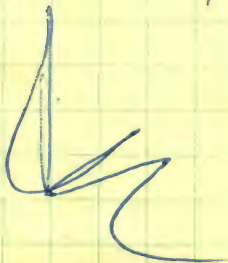
SHOW FREQUENCIES

1X 830
875

2X 845 A¹B
890 A¹B II

2X 780 A¹B I
960 A¹B I

1X 740
940 I



RECEIVER BOARD SETUP

1. Set Sig. Gen @ 2X Receiver
XTAL + 455 KHz
2. Set output of Gen. @
1 mv 30% MOD.
3. alternately adjust Transformers
for Max AC out (a Collector
of Q204 (Detector)
4. Measure Sens. at .6 Vpp @
100%

0

0 0

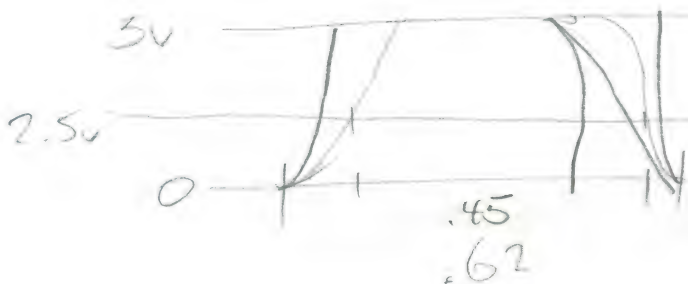
49.8300
24.6775
49.3750
455
24.695
49.390
455
49.845

RECEIVER

- ① MONITOR SYNC PULSE WIDTH & RECORD
- ② REMOVE 18K & 68K RESISTORS
(R227, R234)
- ③ REDUCE C214 FROM 1 μ F TO .1
IN STAGES
- ④ TRY TO MATCH SYNC WIDTH TO
XMITTER SYNC OUTPUT

① PUT 10K POT FOR XMITTER
7.5K TO ADJ. SYNC PULSE
WIDTH TO .45mSec IDEALLY

② ADJ. OTHER PW'S TO 2mSec
BY CHANGING R201



#07018 : www.Kenselectronics.com

L1 Revr : C017157 "LR" "16"

R1 Revr : C017156 "RR" "16" "50 KHz" (GRN STKR)
(24.6875 MHz)
(x2 = 49.375)

PLAIN (NO S/N#)

L1 Revr : C017157 "LR" "16" 24.7175 x2 =

R1 Revr : C017156 "RR" "16" 24.6875 x2 =

TRANSMITTERS

L1 = 49.9187 $\div 2 = 24.95935$ "43C" ^{GRN} PCB STKR

L2 = 49.8287 C016935 "R1" ON XTAL

R1 = 49.7987 $\div 2 = 24.8935$ ^{BENT} ANT. "63R" G. PCB

R2 = 49.8287 C016935 "R1" ON XTAL

R3 = 49.8294 $\div 2 = 24.9142$ "11" ON XTAL "25R" ON STKR

R1. TRANSMITTER XTAL \rightarrow C016935 = 49.8294 MHz
(830)

L3 = 49.8894 $\div 2 = 24.9447$ \rightarrow C016936 "72L" PCB STKR

R4 = 49.6387 $\div 2 = 24.81935$ ^{NO} ANT. "18R" PCB STKR

TEST SPECIFICATION AND PROCEDURE FOR PCB ASSEMBLIES CA016912 AND CA016889

EQUIPMENT REQUIRED:

SIGNAL GENERATOR, RF	H-P 8640B
SIGNAL GENERATOR, RF	H-P 8654A
OSCILLOSCOPE	TEKTRONIX 475
FREQUENCY COUNTER	H-P 5382A
FET PROBE	TEKTRONIX PL201 WITH 10X ATTENUATOR TEKTRONIX PART NO. 010-0376-00 AND GROUND CLIP TEKTRONIX PART NO. 131-1302-00
10X SCOPE PROBE	
DC POWER SUPPLY	0-10VDC
DC VOLTMETER	0-10VDC
CROSSMOD TEST FIXTURE	SEE FIG. 1
JUMPER WIRE	
50 OHM CABLES WITH BNC CONNECTORS 12" LONG	
BNC TO E-Z HOOK ADAPTER	

PROCEDURE:

1. REMOVE INTEGRATED CIRCUIT A200 FROM ITS SOCKET
2. REMOVE RF SHIELD
3. ADJUST POWER SUPPLY TO 5VDC
4. CONNECT POSITIVE TERMINAL OF THE POWER SUPPLY TO PIN 4 OF J200. CONNECT NEGATIVE TERMINAL OF THE POWER SUPPLY TO PIN 7 OF J200.
5. CONNECT FREQUENCY COUNTER TO THE CHANNEL TWO VERTICAL SIGNAL OUT.
6. CONNECT FET PROBE TO CHANNEL TWO INPUT. SET PROBE CONTROLS AS FOLLOWS.
INPUT COUPLING TO AC
DC OFFSET TO OFF
50 OHM TERMINATION TO INTERNAL

7. WITH THE FET PROBE VERIFY THAT THE AC SIGNAL AT THE COLLECTOR OF Q201 IS $1.0 V_{p-p} \pm 20\%$.
8. VERIFY THAT THE OSCILLATOR FREQUENCY IS WITHIN THE LIMITS OF TABLE 1 FOR ANY SUPPLY VOLTAGE FROM 3 TO 7 VDC.
9. SET THE POWER SUPPLY BACK TO 5VDC.
10. SET UP H-P8640B AS FOLLOWS.

RF ON-OFF SWITCH TO ON
OUTPUT LEVEL TO 1 mV.
AM SLIDE SWITCH TO INTERNAL
FM SLIDE SWITCH TO OFF
MODULATION FREQUENCY TO 1 kHz
DEPTH OF MODULATION TO 100%
FREQUENCY PER TABLE 2.
PUSH LOCK SWITCH

11. CONNECT BNC CABLE WITH E-Z HOOK ADAPTER TO H-P8640B.
12. CONNECT GROUND SIDE OF CABLE TO GROUND NEAR ANTENNA CONNECTION ON PCB. CONNECT SIGNAL SIDE TO ANTENNA WIRE END FARTHEST FROM PCB.
13. CONNECT 10X SCOPE PROBE TO CHANNEL 1 INPUT ON THE SCOPE.
14. CONNECT PROBE TO THE COLLECTOR OF Q204.
15. ALTERNATELY TUNE T200 AND T201 FOR A MAXIMUM AC SIGNAL AT THE COLLECTOR OF Q204.
16. CHANGE OUTPUT LEVEL OF H-P8640B TO 100 mV. REPEAT STEP 15.
17. VERIFY THAT THE AMOUNT OF R.F. SIGNAL NEEDED TO GET $0.8 V_{p-p}$ AT THE COLLECTOR OF Q204 IS LESS THAN 200 μV .
18. VERIFY THAT THE AMOUNT OF SIGNAL AT THE COLLECTOR OF Q204 NEEDED TO MAKE THE COLLECTOR OF Q205 TO SWING $5 V_{p-p}$ IS LESS THAN $2 V_{p-p}$.

19. SET OUTPUT LEVEL OF H-P 8640B TO 1mV.
SET DEPTH OF MODULATION TO 30%.
 20. SET UP H-P 8654A AS FOLLOWS
A.M SWITCH TO INTERNAL
F.M SWITCH TO OFF
INTERNAL AM FREQUENCY TO 1KHZ
DEPTH OF MODULATION TO 30%
OUTPUT LEVEL TO 1 mV.
FREQUENCY PER TABLE 3.
 21. CONNECT GROUND OUTPUT OF CROSS MOD TEST FIXTURE
TO GROUND NEAR ANTENNA CONNECTION ON PCB.
CONNECT ANTENNA OUTPUT TO ANTENNA WIRE
END FARTHEST FROM PCB.
 22. CONNECT OUTPUT OF H-P 8640B TO ONE OF THE
TEST FIXTURE INPUTS.
 23. MEASURE THE PEAK TO PEAK AC VOLTAGE AT THE
COLLECTOR OF Q204
 24. SET AM SLIDE SWITCH OF H-P 8640B TO OFF.
LEAVE GENERATOR OUTPUT CONNECTED TO TEST FIXTURE.
 25. CONNECT H-P 8654A TO THE OTHER INPUT OF THE
TEST FIXTURE.
 26. INCREASE THE OUTPUT LEVEL OF THE H-P 8654A UNTIL
THE PEAK TO PEAK VOLTAGE AT THE COLLECTOR OF
Q204 IS 20% OF THE VALUE PREVIOUSLY MEASURED.
 27. VERIFY THAT THE OUTPUT LEVEL OF THE H-P 8654A
IS GREATER THAN 100 mV.
 28. REPLACE I.C. A200 TO ITS SOCKET.
 29. REPLACE R.F. SHIELD
- L.E.D DRIVER TEST FOR CA016912

1. GROUND PINS 1, 2, 3 OF J200. CR1, 3, 5 SHOULD
BE LIT.
2. CONNECT PINS 1, 2, 3 OF J200 TO +5VDC. CR 2, 4, 6
SHOULD BE LIT.

L.E.D DRIVER TEST FOR CAO16889

1. GROUND PINS 1,2,3,5 OF J200. CR1,3 SHOULD BE LIT.
2. CONNECT PINS 1,2,3,5 OF J200 TO +5VDC. CR2,4,5,6 SHOULD BE LIT.

TABLE 1 OSCILLATOR FREQUENCY

ASSEMBLY NO.	FREQUENCY (MHZ)	TOLERANCE
CAO16912	24.7175	1.2 KHz
CAO16889	24.6875	± 1.2 KHz

TABLE 2 TRANSMIT FREQUENCY

ASSEMBLY NO.	FREQUENCY (MHZ)	TOLERANCE
CAO16912	49.890	± 10 HZ
CAO16889	49.830	

TABLE 3. CROSS MOD TEST FREQUENCY

ASSEMBLY NO.	FREQUENCY (MHZ)	TOLERANCE
CAO16912	49.831	± 2 KHz
CAO16889	49.891	

FIG. 1 CROSSMOD TEST FIXTURE

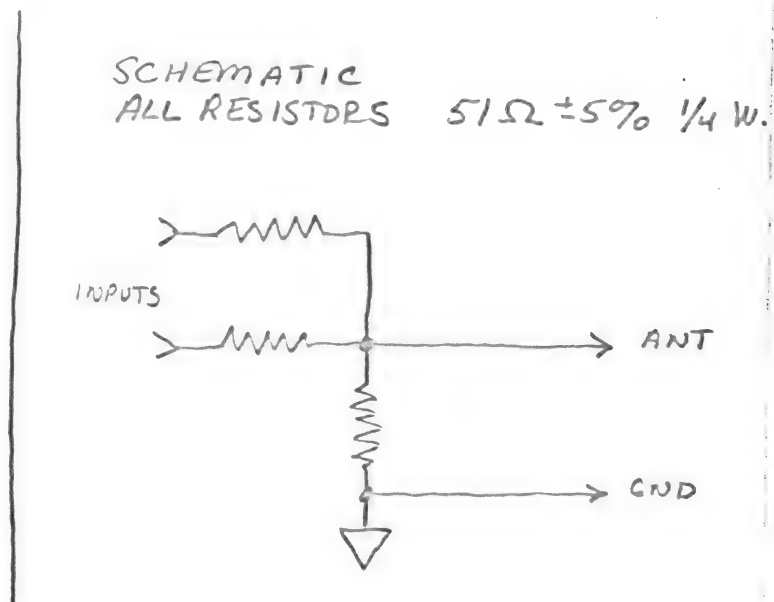
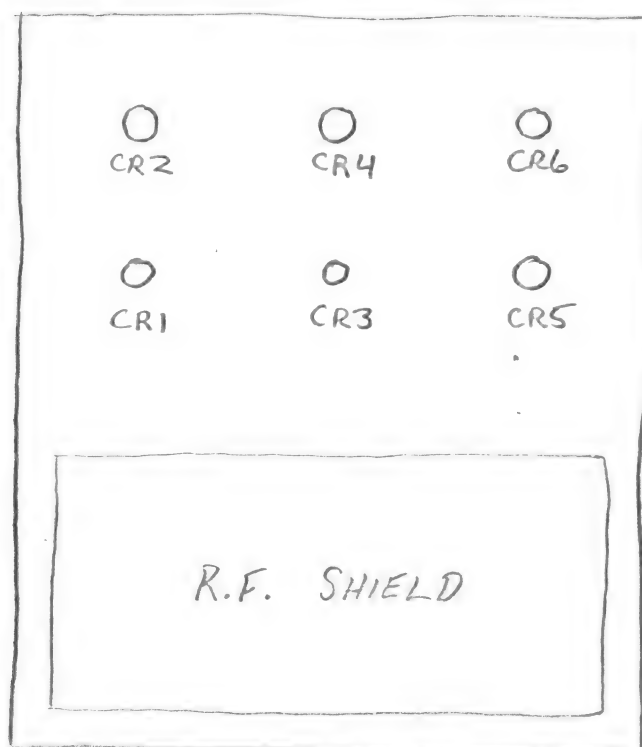


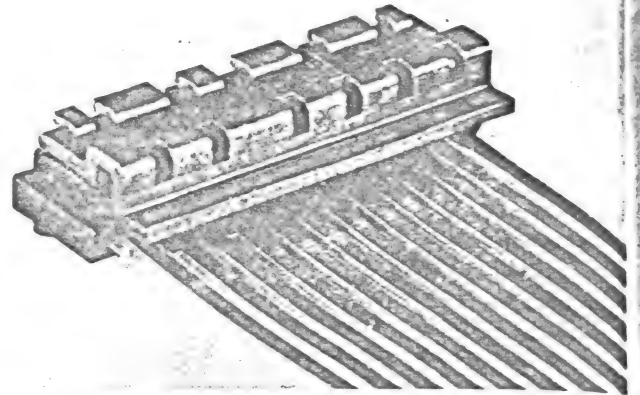
FIG. 2 LED. LOCATIONS (COMPONENT SIDE)



4850 Flat Flexible Cable Connector

General Features:

- Accepts flat conductor flexible cable or flat flexible circuitry on .100" centers
- Snaps into P.C. board with retaining locks
- Printed circuit board solder tails
- Terminals for ease of wave soldering
- Built in polarized strain relief
- 5-25 circuits
- Zero insertion force



The 4850 offers savings in assembly time and cost without neglecting quality, when utilizing the cost effective flat flexible cable and flexible circuitry.

The terminal is the well known and tested "KK" double cantilever terminal. The cable is inserted between the second arm and the base of the terminal. When the cover is closed the cam is actuated. (See fig. 3) forcing the area of contact of the terminal to "slide" on the surface of the cable resulting in wiping off oxide films without damaging conductor plating.

The cover locks in place maintaining the cable positively in place and assuring contact. (See fig. 4)

Design Features:

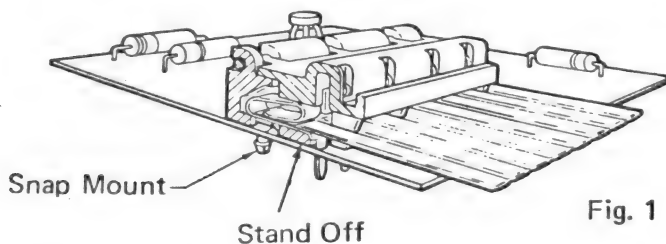


Fig. 1

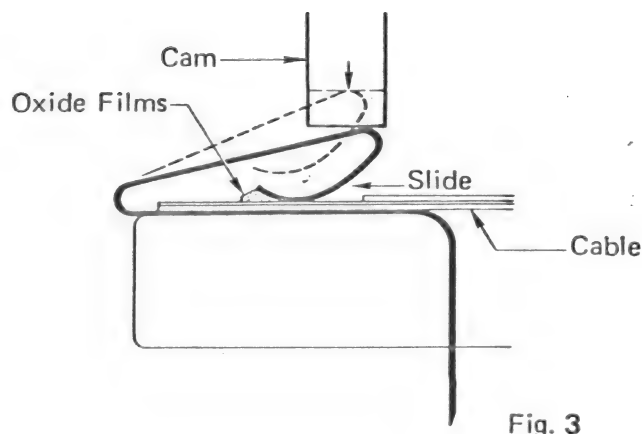


Fig. 3

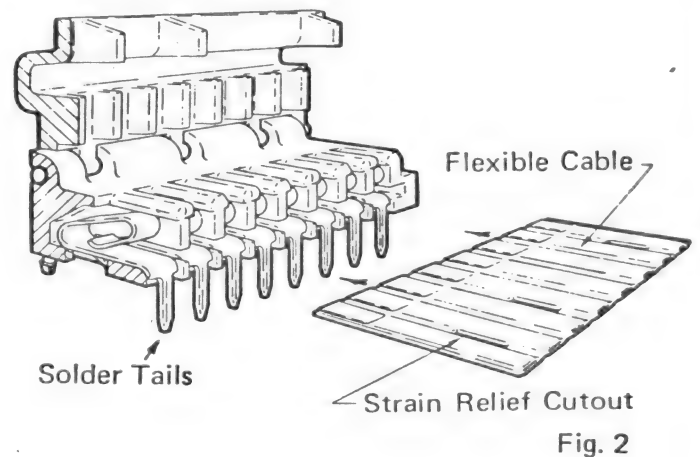


Fig. 2

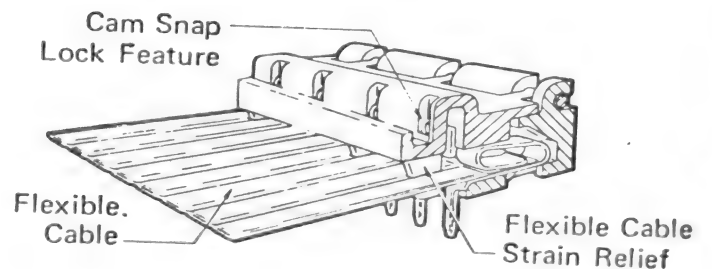
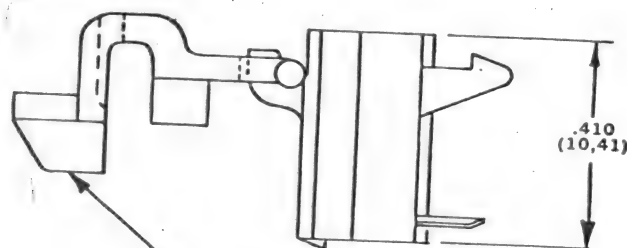


Fig. 4

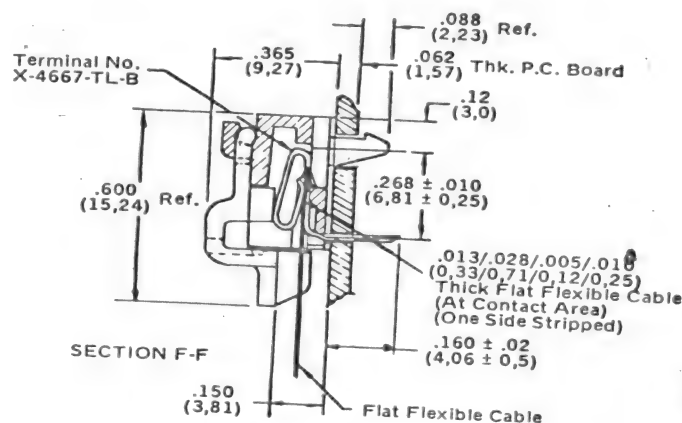
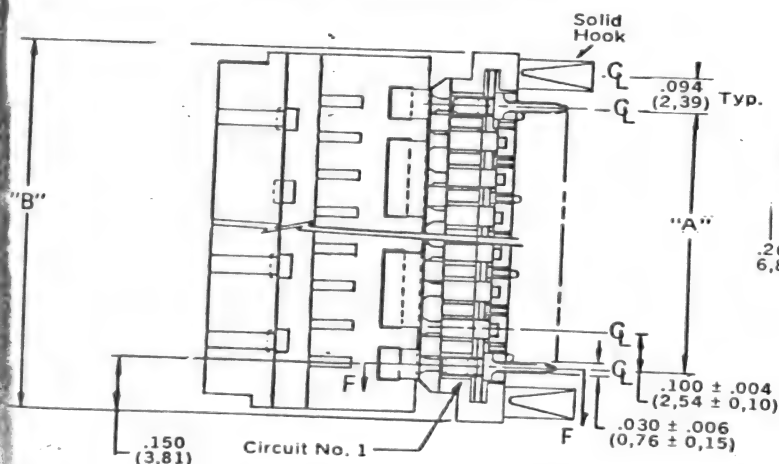
FEATURES

Flat Flex Connector

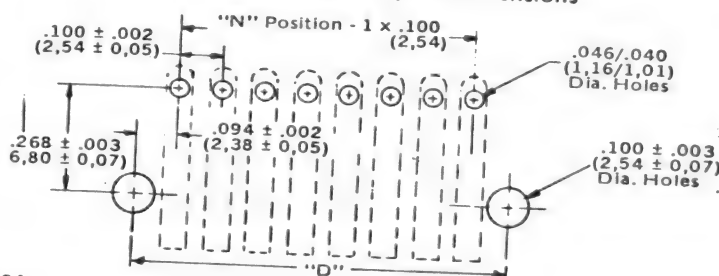
Dimensions:



BUILT-IN STRAIN RELIEF



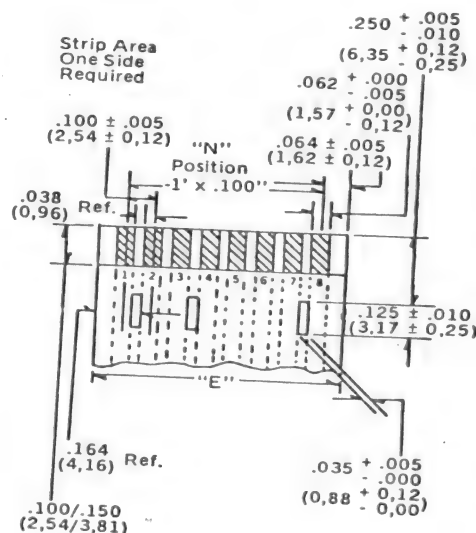
P.C. Board Layout Dimensions



Ordering/ Dimensional Information

No. of Circuits	Order No.	Dim. A	Dim. B	Dim. D	Dim. E	Cable Slots for Strain Relief Located Between
5	15-25-4051	.400 (10,16)	.700 (17,78)	.588 (14,94)	.590 (14,98)	1 & 2, 3 & 4
6	15-25-4061	.500 (12,70)	.800 (20,32)	.688 (17,47)	.690 (17,52)	1 & 2, 4 & 5
7	15-25-4071	.600 (15,24)	.900 (22,86)	.788 (20,02)	.790 (20,06)	1 & 2, 5 & 6
8	15-25-4081	.700 (17,79)	1.000 (25,40)	.888 (22,56)	.890 (22,60)	1 & 2, 3 & 4, 7 & 8
9	15-25-4091	.800 (20,32)	1.100 (27,94)	.988 (25,10)	.990 (25,14)	1 & 2, 3 & 4, 8 & 9
10	15-25-4101	.900 (22,86)	1.200 (30,50)	1.088 (27,64)	1.090 (27,68)	1 & 2, 3 & 4, 9 & 10
11	15-25-4111	1.000 (25,40)	1.300 (33,02)	1.188 (30,18)	1.190 (30,22)	1 & 2, 3 & 4, 10 & 11
12	15-25-4121	1.100 (27,94)	1.400 (35,56)	1.288 (32,71)	1.290 (32,76)	1 & 2, 3 & 4, 11 & 12
13	15-25-4131	1.200 (30,48)	1.500 (38,10)	1.388 (35,26)	1.390 (35,30)	1 & 2, 3 & 4, 12 & 13
14	15-25-4141	1.300 (33,02)	1.600 (40,64)	1.488 (37,79)	1.490 (37,84)	1 & 2, 3 & 4, 13 & 14
15	15-25-4151	1.400 (35,56)	1.700 (43,18)	1.588 (40,34)	1.590 (40,38)	1 & 2, 3 & 4, 14 & 15
16	15-25-4161	1.500 (38,10)	1.800 (45,72)	1.688 (42,87)	1.690 (42,92)	1 & 2, 3 & 4, 15 & 16
17	15-25-4171	1.600 (40,64)	1.900 (48,26)	1.788 (45,41)	1.790 (45,46)	1 & 2, 3 & 4, 17 & 18
18	15-25-4181	1.700 (43,18)	2.000 (50,80)	1.888 (47,95)	1.890 (48,00)	1 & 2, 3 & 4, 17 & 18
19	15-25-4191	1.800 (45,72)	2.100 (53,34)	1.988 (50,49)	1.990 (50,54)	1 & 2, 3 & 4, 18 & 19
20	15-25-4201	1.900 (48,26)	2.200 (55,90)	2.088 (53,03)	2.090 (53,08)	1 & 2, 3 & 4, 19 & 20
	15-25-4211	2.000 (50,80)	2.300 (58,42)	2.188 (55,57)	2.190 (55,62)	1 & 2, 3 & 4, 20 & 21
	15-25-4221	2.100 (53,34)	2.400 (60,96)	2.288 (58,11)	2.290 (58,16)	1 & 2, 3 & 4, 21 & 22
	15-25-4231	2.200 (55,90)	2.500 (63,50)	2.388 (60,65)	2.390 (60,70)	1 & 2, 3 & 4, 22 & 23
	15-25-4241	2.300 (58,42)	2.600 (66,04)	2.488 (63,19)	2.490 (63,24)	1 & 2, 3 & 4, 23 & 24
	15-25-4251	2.400 (60,96)	2.700 (68,58)	2.588 (65,73)	2.590 (65,78)	1 & 2, 3 & 4, 24 & 25

CABLE LAYOUT DIMENSIONS



NOTE: Maximum Cable Thickness
.015" (0,38 mm) at contact
area.



ASSEMBLY TITLE / R.C. COMMANDER (RIGHT) P/L
TRANSMITTER SUB-ASSEMBLY CA016914

PARTS LIST SPECIFICATION

Page 1 of 2

Drawn *M. Ramirez 3/19/81*

Checked *M. Ramirez 3/19/81*

Proj. Eng. *JPK 3/19/81*

Mech. Eng.

Elec. Eng.

Mfg. Eng.

Rev.

1

Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
1	PROTO RELEASE	4-6-81	<i>[Signature]</i>			APR 8 1981	

LATEST REVISION

Item	Part Number	Qty.	Description
1	14-5101	1	RESISTOR, $\frac{1}{4}$ W, 5%, 100 ohm, R214
2	14-5152	1	" " " 1.5K ohm, R212
3	14-5202	1	" " " 2K ohm, R211
4	14-5752	1	" " " 7.5K ohm, R200
5	14-5153	1	" " " 15K ohm, R201
6	14-5223	8	" " " 22K ohm, R202-209
7	14-5563	1	" " " 56K ohm, R215
8	14-5683	1	" " " 68K ohm, R216
9	14-5753	1	" " " 75K ohm, R213
10			
11	C014179-04	1	CAP. CERAMIC, AXIAL, 33pf, NPO, 5%, C206
12	C014179-18	1	" " " 15pf, NPO, 5%, C209
13	C014179-01	1	" " " 22pf, NPO, 5%, C205
14	C014181-01	3	" " " .001uf, Z5U, C201, 204, 208
15	21-101153J	1	" POLYESTER FILM, .015uf, C203
16	21-101473J	1	" " " .047uf, C202
17	C015505	1	" ELECTROLYTIC, RADIAL, 47uf, 16V, C200
18	C014179-19	1	CAP. CERAMIC, AXIAL, 100pf, NPO, 5%, C207
19			
20	33-2N3906	1	TRANSISTOR, 2N3906, Q200
21	34-2N3563	1	" 2N3563, Q202
22	34-MPS2369	1	" MPS2369, Q201
23			
24	C017224	2	INDUCTOR, 2.7uhy, 5%, L202, L200
25	C017225	1	" 3.9uhy, 5%, L201
26	C017542	1	FERRITE BEAD
27			
28	C016935	1	CRYSTAL, 49.8294 MHZ, X200,
29			
30			
31	C014386-03	1	SOCKET, IC, 16 PIN, A200
32			
33	C016324	1	P.C.B.

PARTS LIST SPECIFICATION

Page 1 of 3

Drawn 2/20/99

Checked 3/1/98 3/1/98

Mech. Eng.

Proj. Eng. QPX 3/10/81

Elec. Eng. *N. K. K.*

Rev.

Mfg. Eng.

1

[illegible]

Item	Part Number	Qty.	Description
1	14-5100	1 2	RESISTOR, 1/4W, 5%, 10 OHM, R-206, 232
2	14-5101	1	" " " 100 " , R-209
3	14-5151	1	" " " 150 " , R-215
4	14-5221	6	" " " 220 " , R-200, 205
5	14-5821	1	" " " 820 " , R-211
6	14-5102	3	" " " 1 K " , R-217, 226, 236
7	14-5222	3	" " " 2.2K" , R-216, 219, 224
8	14-5272	3	" " " 2.7K" , R-207, 208, 218
9	14-5562	1	" " " 5.6K" , R-210
10	14-5682	1	" " " 6.8K" , R-212
11	14-5103	3	" " " 10K " , R-223, 228, 235
12	14-5153	1	" " " 15K " , R-225
13	14-5183	2	" " " 18K " , R-214, 227
14	14-5223	1	" " " 22K " , R-230
15			
16	14-5273	1	" " " 27K " , R-229
17	14-5333	1	" " " 33K " , R-213
18	14-5473	2	" " " 47K " , R-231, 233
19			
20	14-5683	1	" " " 68K " , R-234
21			
22			
23	2A-018	1	CAP, CER, DISC: 22pF, NPO, C-204
24	2A-027	1	" " " 47pF, " , C-205
25	2A-020	2	" " " 27pF, " , C-200, 201
26	2A-028	1	" " " 180pF, " , C-211
27	2B-005	4 5	" " " .001uF, Z5U, C-217, 216, 207, 221, 223



PARTS LIST SPECIFICATION

Page 1 of 1

Drawn	
Checked	Mech. Eng.
Proj. Eng.	Elec. Eng.
	Mfg. Eng.
	Rev. 1

Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
1	PROTO RELEASE						

Item	Part Number	Qty.	Description
1	14-5101	1	RESISTOR, $\frac{1}{2}$ W, 5%, 100 ohm, R214
2	14-5152	1	" " " 1.5K ohm, R212
3	14-5202	1	" " " 2K ohm, R211
4	14-5752	1	" " " 7.5K ohm, R200
5	14-5153	1	" " " 15K ohm, R201
6	14-5223	8	" " " 22K ohm, R202-209
7	14-5563	1	" " " 56K ohm, R215
8	14-5683	1	" " " 68K ohm, R216
9	14-5753	1	" " " 75K ohm, R213
10			
11	C014179-04	1	CAP. CERAMIC, AXIAL, 33pf, NPO, 5%, C206
12	C014179-18	1	" " " 15pf, NPO, 5%, C209
13	C014179-05	1	" " " 47pf, NPO, 5%, C205
14	C014181-01	4	" " " .001uf, Z5U, C201, 204, 207, 208
15	21-101153J	1	" POLYESTER FILM, .015uf, C203
16	21-101473J	1	" " " .047uf, C202
17	C015505	1	" ELECTROLYTIC, RADIAL, 47uf, 16V, C200
18			
19			
20	33-2N3906	1	TRANSISTOR, 2N3906, Q200
21	34-2N3563	2	" 2N3563, Q201, Q202
22	34-MPS2369	1	" MPS2369, Q201
23	C017222	1	INDUCTOR, 1.5uhy, 5%, L200
24	C017224	1	" 2.7uhy, 5%, L202
25	C017225	1	" 3.9uhy, 5%, L201
26			
27			
28	C016936	1	CRYSTAL, 49.8894 MHZ, X200,
29			
30			
31	C014386-03	1	SOCKET, IC, 16 PIN
32			
33	C016324	1	P.C.B.



ASSEMBLY TITLE / *Sub-Assy Transmitter* P/L *CA016832*
R.C. - COMMANDER

PARTS LIST SPECIFICATION

Page 1 of 1

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Checked

Proj. Eng.

Mech. Eng.

Elec. Eng.

Mfg. Eng.

Rev.

Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
	<i>Proto Release</i>						

Item	Part Number	Qty.	Description
1	14-5022	1	Res., Car, 22 ohm, 1/4w, 5%
2	14-5470	1	" " 470 ohm, 1/4w, 5%
3	14-5202	1	" " 2K " " "
4	14-5103	1	" " 10K " " "
5	14-5153	1	" " 15K " " "
6	14-5223	1	" " 22K " " "
7	14-5303	1	" " 30K " " "
8	14-5473	8	" " 47K " " "
9	CO16321	1	" Var, 100K ohm
10		1	CAP, mica .022 uf
11	CO14181-01	4	CAP, CER. AXIAL .001 uf, 25V
12		1	" " " 100 pf "
13		1	" " disc. 33pf
14		1	" " disc. 15 pf NPO
15	CO15505	1	" Elec. RAD. 47uf, 16V
17	33-2N3906	1	TRANSISTOR, 2N3906
18	34-2N3563	2	" 2N3563
19	CO14383	1	COIL, 1uhy
20		1	" 2.7"
21		1	" 3.9"
22		1	Crystal, 49.890 MHz or 49.830 MHz
23	CO14386-03	1	16 pin Socket
24			
25	CO16324	1	PCB



ASSEMBLY TITLE

SUB-ASSEMBLY
R.C. STELLA MAIN

P/L CA016911

PARTS LIST SPECIFICATION

Page 1 of 2

Drawn

Checked

Proj. Eng.

Mech. Eng.

Elec. Eng.

Mfg. Eng.

Rev.

1

Rev.	Description	Date	Apprv.	Rev.	Description	Date	Apprv.
1	PROTO RELEASE						

Item	Part Number	Qty.	Description
1	14-5221	2	RESISTOR, 1/4, 5%, 220 ohm R242, R244
2	14-5391	1	" " " 390 ohm R261
3	14-5471	2	" " " 470 ohm R215, R228
4	14-5102	4	" " " 1K ohm R250, R251, R264, R267
5	14-5122	1	" " " 1.2K ohm R258
6	14-5182	4	" " " 1.8K ohm R237-R240
7	14-5332	6	" " " 3.3K ohm R229, R233, R246-R249
8	14-5472	7	" " " 4.7K ohm R204, R214, R224, R227, R257, R260, R266
9	14-5682	2	" " " 6.8K ohm R232, R236
10	14-5912	2	" " " 9.1K ohm R252, R269
11	14-5103	4	" " " 10 K ohm R231, R235, R241, R243
12	14-5153	1	" " " 15 K ohm R263
13	14-5183	3	" " " 18 K ohm R253, R256, R268
14	14-5223	4	" " " 22 K ohm R212, R225, R230, R234
15	14-5243	4	" " " 24 K ohm R202, R210, R245, R259
16	14-5333	2	" " " 33 K ohm R213, R226
17			
18	14-5363	1	" " " 36 K ohm R255,
19	14-5513	4	" " " 51 K ohm R216, R218, R220, R222
20	14-5563	2	" " " 56 K ohm R203, R211
21	14-5753	1	" " " 75 K ohm R254
22	14-5823	4	" " " 82 K ohm R217, R219, R221, R223
23			
24			
25			
26	14-5154	1	" " " 150K ohm R262
27	14-5514	5	" " " 510K ohm R205-R209
28			
29	CO17515	2	" SIP, 10%, 7x2.2K R200, R201
30	19-411504	1	" VARIABLE, 500K ohm R265
31			
32	CO14179-13	1	CAP, CER, AXIAL, 20pf, 5%, NPO C267
33	CO14179-01	1	" " " 22pf " " C264
34	CO14179-05	3	" " " 47pf " " C263, C266, C271
35	CO14180-04	1	" " " 150pf, 20%, X7R, C258
36	CO14180-07	2	" " " 470pf, " " , C253, C254

PARTS LIST SPECIFICATION

Page 2 of 2

Item	Part Number	Qty.	Description
37	CO14181-01	18	CAP, CER, AXIAL, .001uf, +80-20%, Z5U, C213, C229, C230, C236-248, C257, C276
38	CO14181-02	7	" " " .01uf, " " , C215, C225, C233, C255, C265, C272, C273
39	CO14181-03	14	" " " .1uf " " , C202, C204-C209, C232, C234, C259, C260, C262, C268, C274
40	CO10821	2	" POLYSTRENE, 820pf, 5%, C269, C270
41	CO14369	2	" ELEC. RADIAL, 4.7uf, 35V, C256, C261
42	CO17517	1	" " " 3300uf, 16V, C231
43	CO16569	1	" TANTALUM, 1uf, C235
44	CO17516	6	" " 10uf, C203, C210, C217, C219, C221, C223
45	CO17518	4	" MYLAR DIPPED, .047uf, 5%, C200, C201, C211, C212
46	CO14353	4	" " " .068uf, " , C249-C252
47	21-101104M	10	" " " .1uf, " , C214, C216, C218, C220, C222, C224, C226-C228, C275
48	31-1N914	7	DIODE: 1N914, CR200-CR206
49	31-1N4001	5	" 1N4001, CR207-CR211
50			
51	33-2N3904	10	TRANSISTOR: 2N3904, Q200-Q209
52	33-2N3906	5	" 2N3906, Q210-Q214
53	34-2N3563	1	" 2N3563, Q215
54	CO14384	4	INDUCTOR: FERRITE BEAD L200, L202, L203, L206
55	CO15752	1	" AXIAL: 1.8uH L205
56		1	" " 15uH L201
57	CO10823	1	" 12½ TURN VAR. L204
58	CA015796	1	SOCKET: CATRRIDGE ASSEMBLY J200
59	CO14386-02	6	" I.C.: 14 PIN
60	CO14386-03	2	" " 16 PIN
61	CO14386-05	1	" " 20 PIN
62	CO14386-08	1	" " 28 PIN
63	CO14386-09	2	" " 40 PIN
64	CO16805	1	CRYSTAL: 3.579545MHZ X-200
65	CO14719-09	1	CONNECTOR: 13 PIN J204
66	CO14719-08	2	" 8 PIN MOLEX J205, J206
67	CO10448	2	" RIGHT ANGLE "D" 9 PIN J202, J203
68			
69	CO17263	1	JACK: POWER J201
70			
71			
72	CO12242	1	SWITCH: PCB SLIDE S201
73	CO14397	1	" POWER S200
74			
75	CO14348	1	VOLTAGE REGULATOR A203
76	CO16548	1	HEATSINK
77	72-1406S	1	SCREW #4-40x3/8 PHIL. HD.
78	75-044	1	WASHER #4 SPLIT
79	75-914C	1	NUT #4 STD.
80			
81	CO16886	1	P.C.B.

PARTS LIST SPECIFICATION

Page 2 of 3

Item	Part Number	Qty.	Description
28	2B-013	1	CAP, CER, DISC: 005 μ F, Z5U, C-213
29	2B-014	8	" " " .047 μ F, " , C-202, 203, 206,208, 210, 212, 215,222
30		1	" TANT 1.0 uf C217
31			
32	CO14733	2	CAP, ELECTROLYTIC, RADIAL, 1 μ F, 50V, C-209, 214
33			
34	CO17188	1	CER, FILTER, CFU 455F2, CF-100
35	CO17189	1	" " SFU 455A , CF-101
36			
37	34-MPS2369	1	TRANSISTOR, MPS 2369, Q-201
38	CO17238	1	" MPS H10 , Q-202
39	34-2N3904	2	" 2N3904 , Q-204, 206
40	34-2N3563	1	" 2N3563 , Q-200
41	33-2N3906	2	" 2N3906 , Q-203, 205
42			
43	31-1N914	2	DIODE: 1N914, CR207, 208
44	CO14776	6	L.E.D. , RED, CR201-206
45	CO17223	1	INDUCTOR: 2.2 μ Hy, L-200
46	CO17236	2	" 1MHY, L-201, 202
47	CO17185	1	TRANSFORMER, R.F., T-200
48	CO17186	1	" " T-201
49	CO17156	1	CRYSTAL: 24.6875 MHZ, X-200
50			
51			
52	CO14721-02	1	CONNECTOR, RIGHT ANGLE, 8PIN, J-200
53			
54	CO14386-02	1	SOCKET, I.C. , 14 PIN, A200
55	52-222	A/R	JUMPER, WIRE TINNED COPPER, 16", W100-W114
56	CO16501	3	L.E.D. SUPPORT
57			
58	CO17190	1	P.C.B.

APR 8 1981
LATEST REVISION

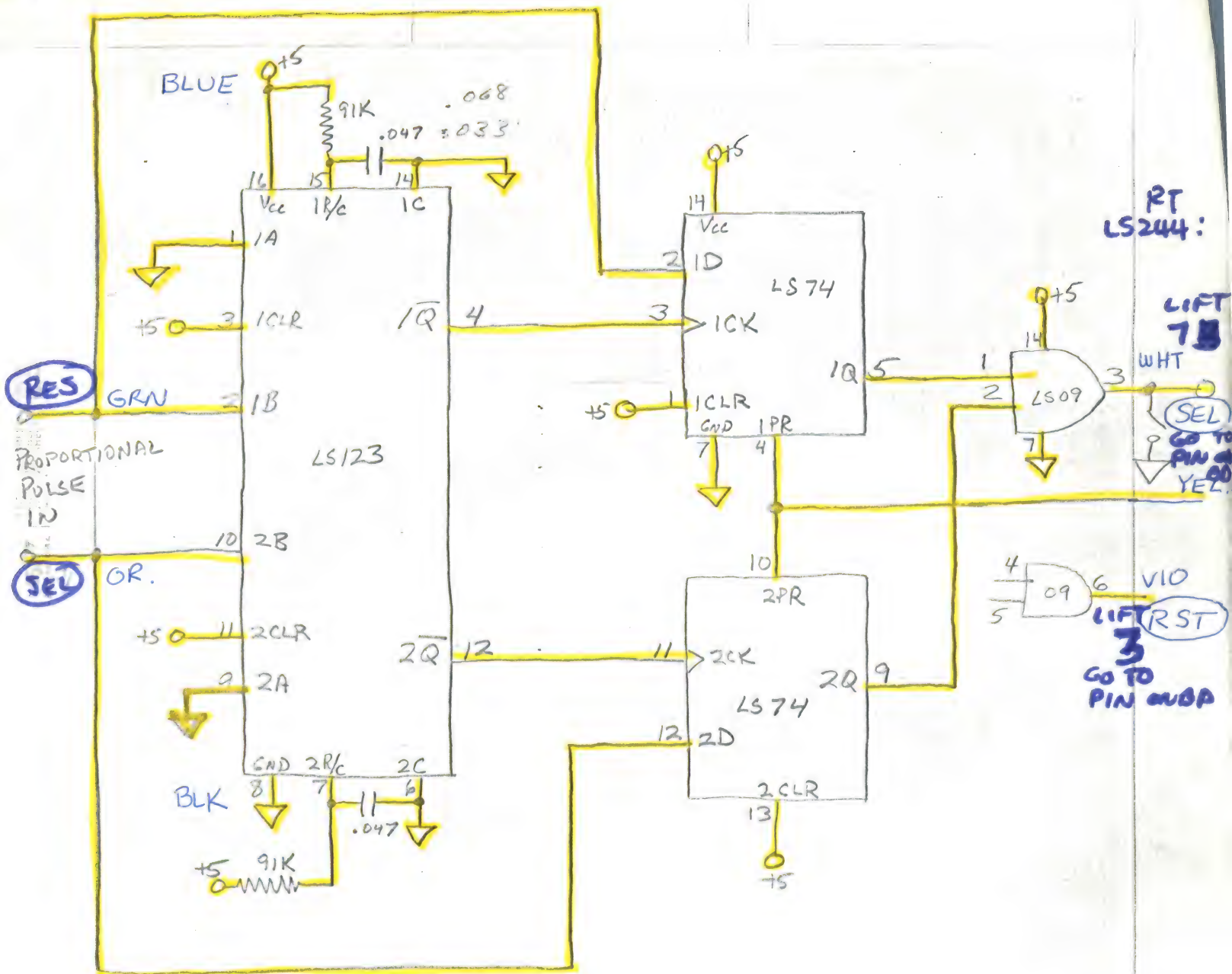
ITEM	PART NUMBER	QTY	DESCRIPTION
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1	14-5221	2	RES., 1/4W., 5% 220 OHM R269, 270
2	14-5391	1	RES., 1/4W., 5% 390 OHM R255
3	14-5471	2	RES., 1/4W., 5% 470 OHM R223, 245
4	14-5102	4	RES., 1/4W., 5% 1.0 KOHM R231, 232, 233, 253
5	14-5182	5	RES., 1/4W., 5% 1.8K OHM R207, 235, 236, 237, 238
6	14-5332	5	RES., 1/4W., 5% 3.3K R217, 220, 234, 242, 243
7	14-5472	4	RES., 1/4W., 5% 4.7 K OHM R201, 208, 252, 257
8	14-5682	1	RES., 1/4W., 5% 6.8 KOHM R221
9	14-5912	1	RES., 1/4W., 5% 9.1 KOHM R205
10	14-5103	8	RES., 1/4W., 5% 10KOHM R203, 213, 214, 218, 224, 240, R258, 268
11	14-5153	2	RES., 1/4W., 5% 15 KOHM R202, 260
12	14-5183	1	RES., 1/4W., 5% 18K OHM R206
13	14-5223	2	RES., 1/4W., 5% 22 KOHM R215, 229
14	14-5243	2	RES., 1/4W., 5% 24 KOHM R247, 251
15	14-5273	4	RES., 1/4W., 5% 27 KOHM R219, 230, 239, 241
16	14-5333	2	RES., 1/4W., 5% 33 KOHM R256, R271
17	14-5563	1	RES., 1/4W., 5% 56 KOHM R216
18	14-5753	4	RES., 1/4W., 5% 75 KOHM R225, 228, 244, 265
19	14-5104	11	RES., 1/4W., 5% 100KOHM R210, 212, 226, 227, 246, R248, 249, 262, 263, 264, 267
20	14-5114	1	RES., 1/4W., 5% 110 KOHM R222
21	14-5154	1	RES., 1/4W., 5% 150 KOHM R259
22	14-5514	4	RES., 1/4W., 5% 510 KOHM R204, 211, 261, 272
23	19-411504	1	POTENTIOMETER 500K OHM R200
24	21-101104M	4	CAP, MYLAR DIPPED: .1UF, 100V C212, 241, 247, 248
25	C014181-03	17	CAP, CERAMIC, AXIAL: .1 UF, +80-20%, Z5U C200, C202-205, 209, 213, 234, 237, 238, 243, 245, 246, 249, C250, 255, 258
26	C014181-02	6	CAP, CERAMIC, AXIAL: .01 UF, +80-20%, Z5U C201, C214, 215, 226, 236, 256
27	C014181-01	14	CAP, CERAMIC, AXIAL: .001UF, +80-20%, Z5U C217, C218-C223, C251-C254, 257, 260, 261
28	C014179-13	1	CAP, CERAMIC, AXIAL: 20 PF NPO ACROSS XTAL
29	C014179-01	1	CAP, CERAMIC, AXIAL: 22 PF C242
30	C014179-05	3	CAP, CERAMIC, AXIAL: 47 PF C210, 235, 259 1 NPO ACROSS XTAL
31	C014180-04	1	CAP, CERAMIC, AXIAL: 150 PF C233
32	C014180-07	2	CAP, CERAMIC, AXIAL: 470 PF C232, 233
33	C014353	4	CAP, MYL., DIPPED: .068UF, 100V C228, 229, 230, 231
34	C010821	2	CAP, POLYSTYRENE 820 PF C239, 240
35	C014369	2	CAP, ELECTROLYTIC: 4.7 UF, 35V C207, C216
36	C014371	4	CAP, ELECTROLYTIC: 10 UF, 16V C206, 208, 225, 227
37		1	CAP, ELECTROLYTIC: 2200 UF, 16V C244
38	31-1N4001	4	DIODE 1N4001 CR205, 206, 207, 208
39	31-1N914	6	DIODE: 1N914 CR200, 201, 202, 203, 204, 209
40	34-2N3563	1	TRANSISTOR 2N3563 Q200
41	33-2N3906	4	TRANSISTOR 2N3906 Q201, 202, 203, 204
42	C015752	1	INDUCTOR, 1.8 UH L200
43	C010823	1	12 1/2 TURN COIL L201
44	C014384	4	INDUCTOR, FERRITE BEAD L202-205

D

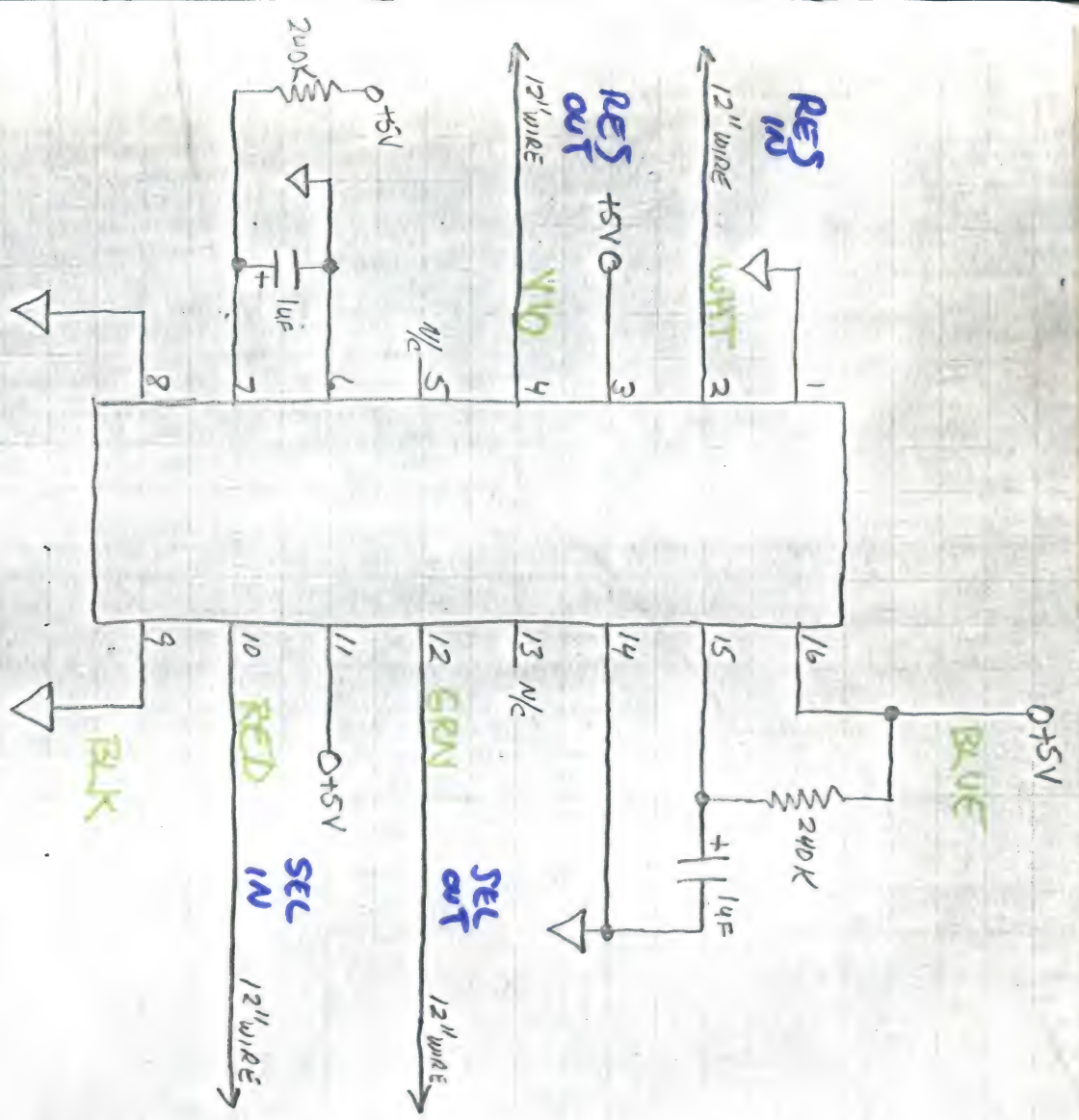
ITEM	PART NUMBER	QTY	DESCRIPTION
------	-------------	-----	-------------

✓ 45	CO16010	1	CRYSTAL 3.579545 MHZ. X200
46		1	13 PIN RIBBON CABLE CONNECTOR J208
47		2	15 PIN RIBBON CABLE CONNECTOR J206,207
48	CO10448	2	CONNECTOR, RT. ANGLE "D": 9 PIN J202,203
✓ 49	CO14715	1	CONNECTOR POWER JACK J201
✓ 50	CO14386-02	5	SOCKET, I.C.: 14 PIN A204, Z200, 201, 202, 203
✓ 51	CO14386-03	2	SOCKET, I.C.: 16 PIN A205, A206
✓ 52	CO14386-05	2	SOCKET, I.C.: 20 PIN A203, 207
✓ 53	CO14386-08	1	SOCKET, I.C.: 28 PIN A200
✓ 54	CO14386-09	2	SOCKET, I.C.: 40 PIN A201, 202
✓ 55	CO10819	1	VOLTAGE REGULATOR 7805 A209
✓ 56	79-5903	1	CONNECTOR PHONO JACK J204
✓ 57	CA012174	1	MODULE, RF, "B" A208
✓ 58	CO14397	1	SWITCH POWER S201
✓ 59	CO12241	1	PCB SLIDE SWITCH S202
60	CA015796	1	CARTRIDGE SOCKET ASS'Y J200



TIE ALL PULSES TOGETHER
LEAVE A LENGTH OF WIRE CONNECTED
TO THEM

ON 1 3/8" X 4" Vector Board



12



ENGINEERING LOG SHEET

GAME OR PROJECT

RC STELLA

COMMANDER
PROTO RUNUNIT #FREQ.MAIN FRAME#CHANNEL

1	49.740 MHz		
2	49.760		
→ 3	49.960	1	
→ 4	49.780	1	
5	49.800-	4	R
6	49.980		
7	49.920		
8	49.960		
9	49.740	2	R
10	49.940		
11	49.760	3	R
12	49.800		
13	49.980	4	L
14	49.920-	2	L
15	49.960		
16	49.940	3	L

WRITER

JK

DATE

12/19

WITNESS

DATE



GAME OR PROJECT

RC STELLA SHOW UNITS

1

L TRANS: 49.8894 MHz (C016936 XTAL)

R TRANS: 49.8294 MHz (C016935 XTAL)

L REC: 24.7175 MHz (C017157 XTAL) 400 μ V IN = .8 V OUTR REC: 24.6875 MHz (C017156 XTAL) 225 μ V IN = .8 V OUT

2

L TRANS:

R TRANS:

L REC:

R REC:

3

L TRANS:

R TRANS:

L REC:

R REC:

NOT
USED
FOR
SHOW

4

L TRANS: 49.8894 (C016936)

R TRANS: 49.8294 (C016935)

L REC: 24.7175 (C017157)

R REC: 24.6875 (C017156)

we

WRITER

DATE

WITNESS

DATE



ENGINEERING LOG SHEET

23

GAME OR PROJECT

RC STELLA SHOW UNITS

CHANNEL ASSIGNMENTS (2 EACH)

		RECEIVER	TRANSMITTER
1	LEFT	24.6425	49.7387
	RIGHT	24.5725	49.5987
2	LEFT	24.7525	49.9587
	RIGHT	24.6025	49.6587
3	LEFT	24.6525	49.7587
	RIGHT	24.5825	49.6187
4	LEFT	24.7325	49.9187
	RIGHT	24.6725	49.7987
5	LEFT	24.7625	49.9787
	RIGHT	24.6225	49.6987
6	LEFT	24.7425	49.9387
	RIGHT	24.5925	49.6387

WRITER

DATE

WITNESS

DATE

06	21	46.770	49.830	A
07	22	46.830	49.890	E
08	23	46.870	49.930	
09	24	46.930	49.990	
10	25	46.970	49.970	

POST-1995 CORDLESS FREQUENCIES

Channel	Base	Handset
---------	------	---------

1	43.7200	48.7600
2	43.7400	48.8400
3	43.8200	48.8600
4	43.8400	48.9200
5	43.9200	49.0200
6	43.9600	49.0800
7	44.1200	49.1000
8	44.1600	49.1600
9	44.1800	49.2000
10	44.2000	49.2400
11	44.3200	49.2800
12	44.3600	49.3600
13	44.4000	49.4000
14	44.4600	49.4600
15	44.4800	49.5000
16	46.6100	49.6700
17	46.6300	49.8450
18	46.6700	49.8600
19	46.7100	49.7700
20	46.7300	49.8570
21	46.7700	49.8300
22	46.8300	49.8900
23	46.8700	49.9300
24	46.9300	49.9900

49 Mhz Cordless Phone Frequency Table

This table is the frequency chart for the 49 Mhz cordless phone frequencies. These listings are only for information as it is illegal to monitor, record or disclose the contents of a cellular or cordless telephone conversation! In 1991 and again in late 1995, the FCC added additional frequencies to the 49 Mhz section for these phones, and changed the frequency shift from the base frequency and handset. Hence, for this division of cordless phones, there are three sections, pre 1991, pre and post 1995. In order to test the phone operation via scanner, it is necessary to program the BASE frequency to enable both sides of the conversation. As you can see from the chart, some of the frequencies overlap and can, in certain instances, cause problems for other units. Also be aware that baby monitor channels also fell into the 49 Mhz telephone range and OFTEN cause problems.

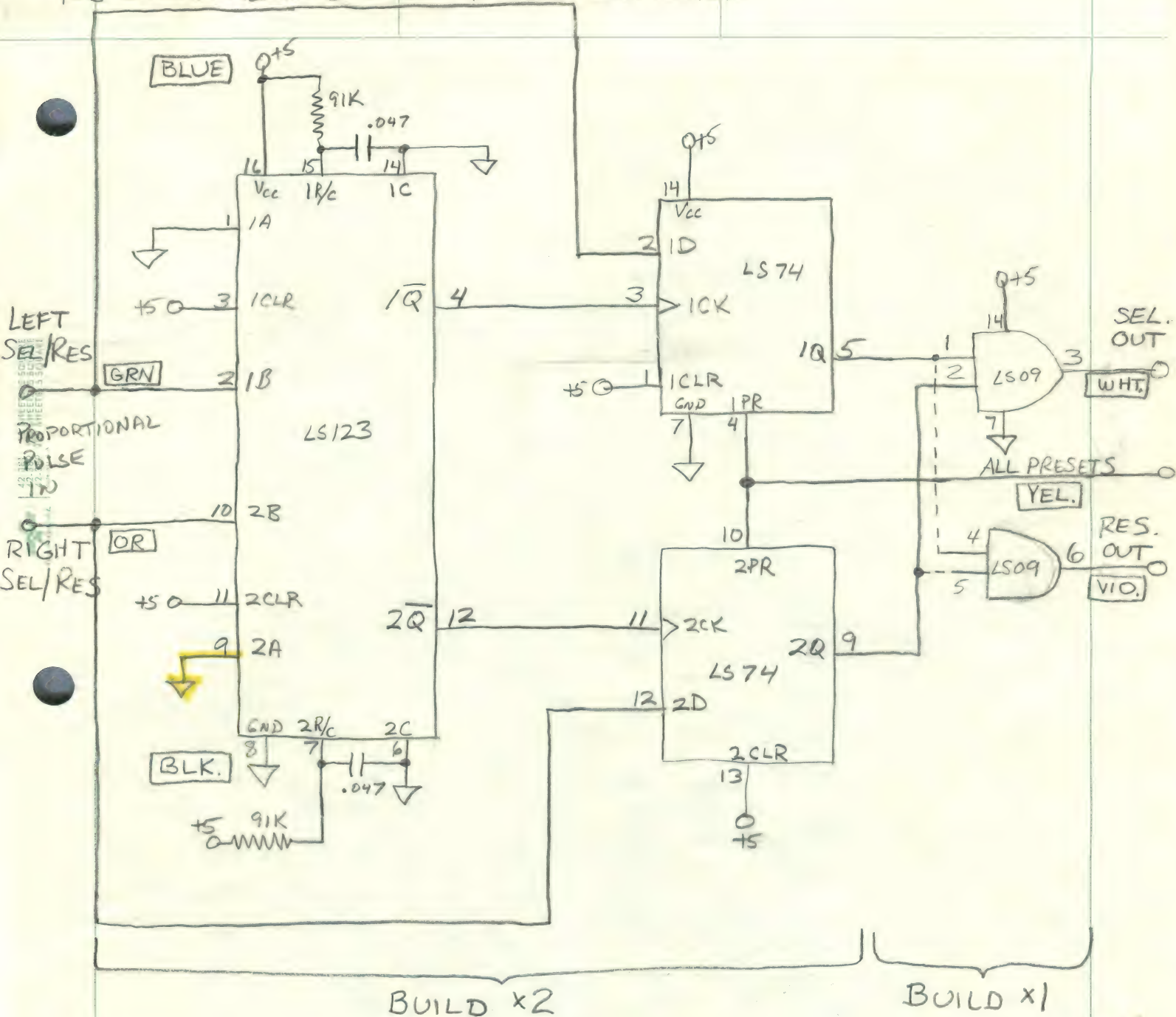
PRE-1991 CORDLESS FREQUENCIES

Channel ##	Base TX	Handset TX
=====	=====	=====
Channel 01A	49.9300	01.6950
Channel 06A	49.8300	01.7050
Channel 13A	49.8600	01.7650
Channel 19A	49.8750	01.7950
Channel 25A	49.8900	01.8250
Channel 27A	49.8450	01.7350

PRE-1995 CORDLESS FREQUENCIES

Channel	Base	Handset	Baby Monitor
Old-New	Frequencies	Channel	
=====			
01	16	46.610	49.670
02	17	46.630	49.845 B
03	18	46.670	49.860 C
04	19	46.710	49.770
05	20	46.730	49.875 D

RC STELLA REMOTE SELECT/RESET SWITCHER



TIE ALL PRESETS TOGETHER
LEAVE A LENGTH OF WIRE CONNECTED
TO THEM, HOOKUP TO REMOTE LATCH OUTPUT, LS279 PIN 9

SEL. OUT (WHITE) TO RT. CHANNEL LS244, PIN 7
RES. OUT (VIOLET) TO " " " , PIN 3

SEL/RES INPUTS TAPPED, FROM LEFT, RIGHT RECEIVER BD.
CONNECTORS PINS 6 & 7. REMOVE 75K INPUT
RESISTORS FROM 3086 INPUTS ON MOTHER BD.



Here is a list of our available oscillator frequencies

We try to carry as many of the following oscillator frequencies as possible. Due to rapidly fluctuating demand, we may not always have them in stock. Parts marked with a * are currently out of stock, so please check with us prior to ordering them to find out about availability, lead time, and pricing.

- Full Size Metal Can TTL oscillators
- Half-size Metal-can TTL crystal oscillators
- Surface-Mount (SMT) TTL crystal oscillators (14x9.8)
- Surface-Mount (SMT) TTL crystal oscillators (13x9.7)
- Surface-Mount (SMT) TTL crystal oscillators (12.7x9.5)
- Surface-Mount (SMT) TTL crystal oscillators (12.8x4.9)
- Crystals (NOT oscillators) → 49.89 MHz (HC-18, HC-49/U, HC-49/UA)
- Surface-mount (SMT) resistors
- Surface-mount (SMT) capacitors
- Surface-mount (SMT) inductors

Full Size Metal Can TTL oscillators

0.712 MHz *
1 MHz
1.024 MHz *
1.536 MHz *
1.544 MHz *
1.792 MHz *
1.8432 MHz
2 MHz *
2.2 MHz *
2.4576 MHz *
2.666 MHz *
3.6864 MHz *

RC "PLAIN" PCB = "LT T17" LOWER RT CORNER

LEFT RCVR (RCM 11, 5 STRK SHIELD)

$$XTAL = C017157 = 24.7175 \text{ MHz} \times 2 = 49.4350 \text{ MHz}$$

CO16936 = 49.8894 MHz (x200) → 49.8887

#1 CHOICE (COMMANDER) FOR

RT RCVR (RCM 10, 2 STRK SHIELD)

$$XTAL = C017156 = 24.6875 \text{ MHz} \times 2 = 49.3750 \text{ MHz}$$

CO16935 = 49.8294 MHz (x200)

Anchor ()
WALSH S.C.

KEYPAD		PCB	
COLOR	KEY #	FUNCTION	HEADER
GRN	1	LOCAL	9
RED	2	JOYSTICK	12
VID	3 / 9	SELECT	13
BRN	4 / 10	REMOTE	2
WHT	5 / 11	PAOPLE	6
BLU	6 / 12	RESET	7
YEL	com	CNP	1
GRN	com		-

LT 24.7175 $\times 2 = 49.4350$

RT 24.6875 $\times 2 = 49.3750$

Kenistelectronics 269-345-4609
MICHIGAN FR19-4 (6-1)

BLANK PCB XTAL: 49.6387 / 2 = 24.81935 MHz
NEEDS RCVR XTAL

L1: 43L PCB
(STICK)

$$49.9187 / 2 = 24.95935 \text{ MHz}$$

#2 CHOICE -
(FOR RCVR)

WON'T
STAY ON

$$L2: \underline{5016935} \text{ XTAL} = 49.8287 / 2 = 24.91435 \text{ MHz}$$

R1:

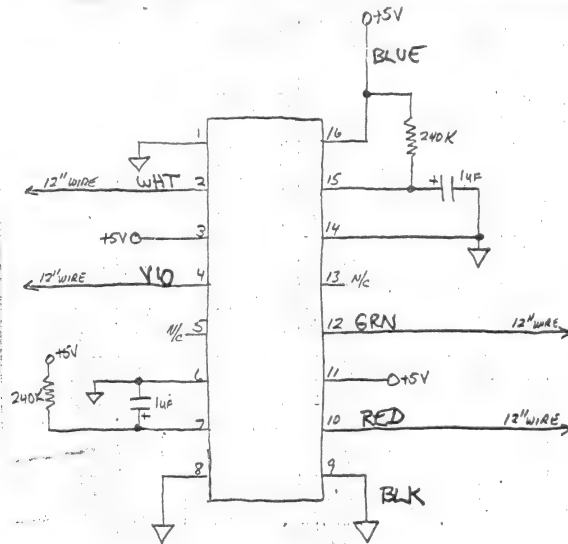
$$49.7987 / 2 = 24.89935 \text{ MHz}$$

$$49.375 / 2 = 24.6875 \text{ (PT CO17156)}$$

ssales 24.9000 HC18 RCVR

CO16112 = 3.54
CO16801 4.43

ON 1 3/8" X 4" VECTOR BOARD



X2

ASSEMBLY TITLE <i>RC STELLA PROTO RUN</i>			P/L	REV.
PARTS LIST SPECIFICATION			Page	of
Item	Part Number ^{VALUE}	Qty.	Description	
1	.001 μ f	220	CAPACITOR, CERAMIC DISC 25V	
2	.005 μ f	110	" " " 25V, 10%	
3	15 p f	110	" " " 25V, 5% NPO	
4	22 p f	55	" " " " "	
5	27 p f	110	" " " " "	
6	47 p f	165	" " " " "	
7	100 p f	110	" CERAMIC AXIAL, 10% NPO	
8	.015 μ f	110	" POLYESTER FILM, 5%	
9	.022 μ f	110	" " "	
10	.1 μ f	330	" "	
11	.068 μ f	220	" "	
12	.047 μ f		" "	
13	1 μ f	220	" ELECTROLYTIC RADIAL 16V	
14	3200 μ f	55	" " " 16V	
15	2.2 mHy	110	INDUCTOR	
16	2.7 mHy	110	"	
17	3.9 mHy	110	"	
18	1 mHy	220	"	
19	MP52369	110	TRANSISTOR	
20	MP5H10	110	"	
21	7405	110	I.C.	
22	C1C005	110	" ENCODER (JOHN HAMIL)	
23	C1C006	110	" DECODER (")	
24	74LS123	110	"	
25	74LS157	55	"	
26	74LS379	55	"	
27	4066	55	"	
28	LM324	55	"	
29	74LS01	55	"	
30	74LS04	55	"	
31	74LS09	55	"	
32	74LS74	110	"	
33	180 p f	180	CAPACITOR, CERAMIC DISC, 25V	
34				
35				
36				
37				

PARTS LIST SPECIFICATION

Page of

Item	Part Number	Qty.	Description
1	.001 μ f	220	CAPACITOR, CERAMIC DISC 25V
2	.005 μ f	110	" " " 25V, 10%
3	15 p f	110	" " " 25V, 5% NPO
4	22 p f	55	" " " " "
5	27 p f	110	" " " " "
6	47 p f	165	" " " " "
7	100 p f	110	" CERAMIC AXIAL, 10% NPO
8	.015 μ f	110	" POLYESTER FILM, 5%
9	.022 μ f	110	" " "
10	.1 μ f	330	" " "
11	.068 μ f	270	" " "
12	.047 μ f		" " "
13	1 μ f	220	" ELECTROLYTIC RADIAL 16V
14	3300 μ f	55	" " " 160V
15	2.2 mH μ Hy	110	INDUCTOR
16	2.7 mH μ Hy	110	"
17	3.9 mH μ Hy	110	"
18	1 mH μ Hy	270	"
19	MPS 2369	110	TRANSISTOR
20	MPS 410	110	"
21	7405	110	I.C.
22	CIC 005	110	" ENCODER (JOHN HAMILL)
23	CIC 006	110	" DECODER (")
24	74LS123	110	"
25	74LS157	55	"
26	74LS279	55	"
27	4066	55	"
28	LM124	55	"
29	74LS01	55	"
30	74LS04	55	"
31	74LS09	55	"
32	74LS74	110	"
33	180 p f	100	CAPACITOR, CERAMIC DISC, 25V
34			
35			
36			
37			

Wayne -

10:45
THURS 2/26

Need these parts ordered
for the KC Stella proto run in
addition to what is already in
process. Call me for ?'s if
you have any.

Dan Kramer

X 5066

QTY 55 / 22 PF, NPO, $\pm 5\%$ ^{25V} .78

QTY 55 / 47 PF, NPO $\pm 5\%$ ^{100V} .78

QTY 110 / 27 PF, NPO $\pm 5\%$ ^{25V} .76

QTY ¹⁰⁰ 55 / 180 PF, NPO $\pm 5\%$ ^{100V} .92

~~QTY 440 / .01 μ F, $\pm 5\%$ 25V~~

3/5/81

All CERAMIC Disc

Capacitor

per
all parts

P.C. PROTO RUN OF 50, PARTS LIST REFLECTS 50 + 10% ONLY

30503 - 0216 - 3V1006

ITEM#	Description				QTY
1	CAPACITOR	CERAMIC	Disc	.001MF Z5U	220
2	"	"	"	.005MF, $\pm 10\%$	110
3	"	"	"	47 PF, NPO, $\pm 5\%$	110
4	"	"	"	15 PF, NPO, $\pm 5\%$	110
5	CAPACITOR	CERAMIC	AXIAL	100 PF, NPO, $\pm 10\%$	110
6	CAPACITOR	POLYESTER	FILM	.015MF $\pm 5\%$	110
7	"	"	"	.022MF $\pm 5\%$	110
8	"	"	"	.1MF	330
9	"	"	"	.068MF	220
10	"	"	"	.047MF	1,265 325
11	CAPACITOR	ELECTROLYTIC	RADIAL	1MF 16V	220
12	"	"	"	3200MF 16V	55
13	INDUCTOR	2.2MHY			110
14	"	2.7MHY			110
15	"	3.9MHY			110
16	"	1 mHY	MILLI HENRY		220
17	TRANSISTORS	MPS2369			110
18	"	MPS410			110
20	I.C.	7405			110
21	I.C.	ENCODER	CIC 005 (JOHN HAMIL)		110
22	I.C.	DECODER	CIC 006 (")		110
23	I.C.	74LS123			110
25	I.C.	74LS279			55
26	I.C.	74LS157			55
27	I.C.	4066			55
28	I.C.	LM324			55
29	I.C.	74LS01			55
30	I.C.	74LS04			55
31	I.C.	74LS09			55
32	I.C.	74LS74			110

WAYNE - ON I.C. FIRST CHOICE : MOTOROLA

SECOND CHOICE : NATIONAL S.

THIRD : ANYTHING YOU CAN GET

110
55
110

"
STRAIGHT-UP
90°

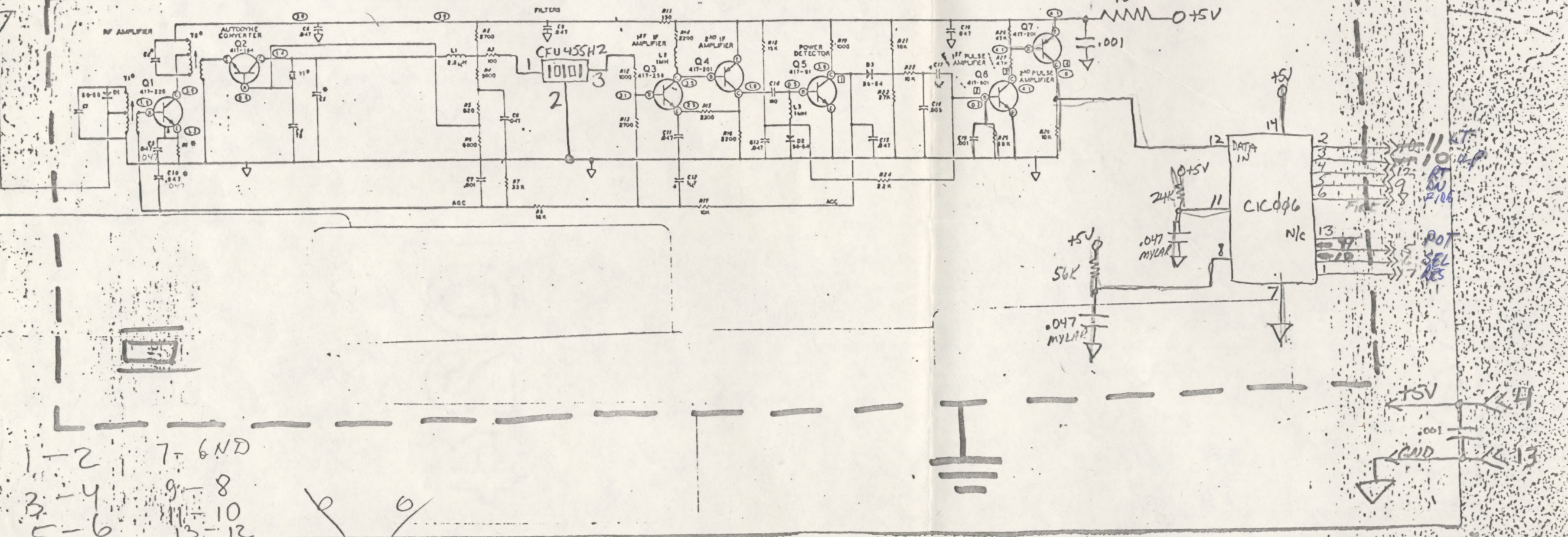
"
MOLEX
"

8-PIN
13-PIN
8-PIN

KIK100 SERIES

REC.
MONO-P
REC.

ANTENNA



SHIELD GND

J204

RF MOD.

1 LEFT RECEIVER CON.

3085

74LS00

74LS279

74LS157

1 MONOPANEL CON.

CARTRIDGE SOCKET ASSEMBLY

R202

R200

R201

7805

1 RIGHT RECEIVER CON.

3085

CD4066

LN324

74LS244

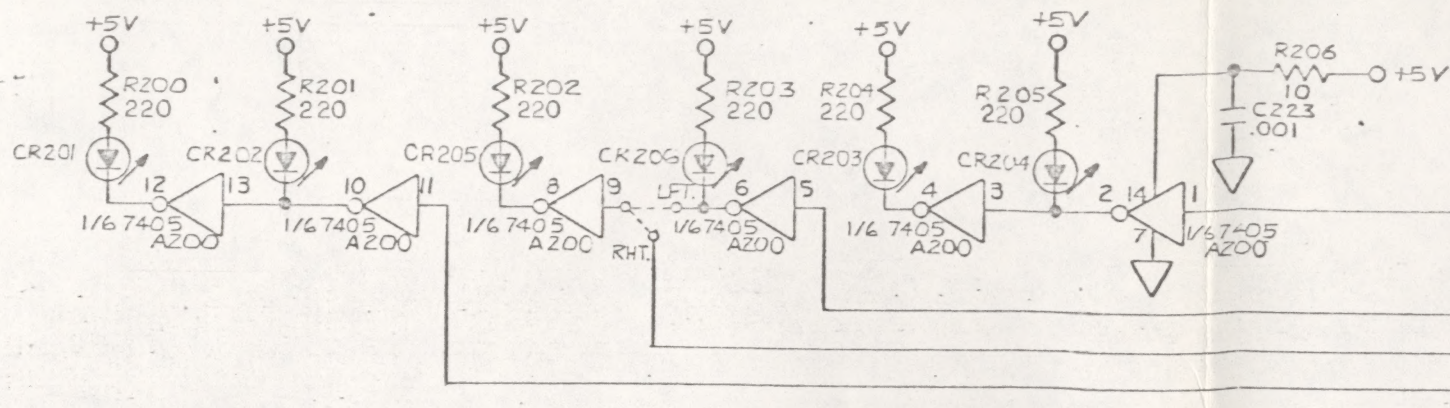
9 PIN

9 PIN

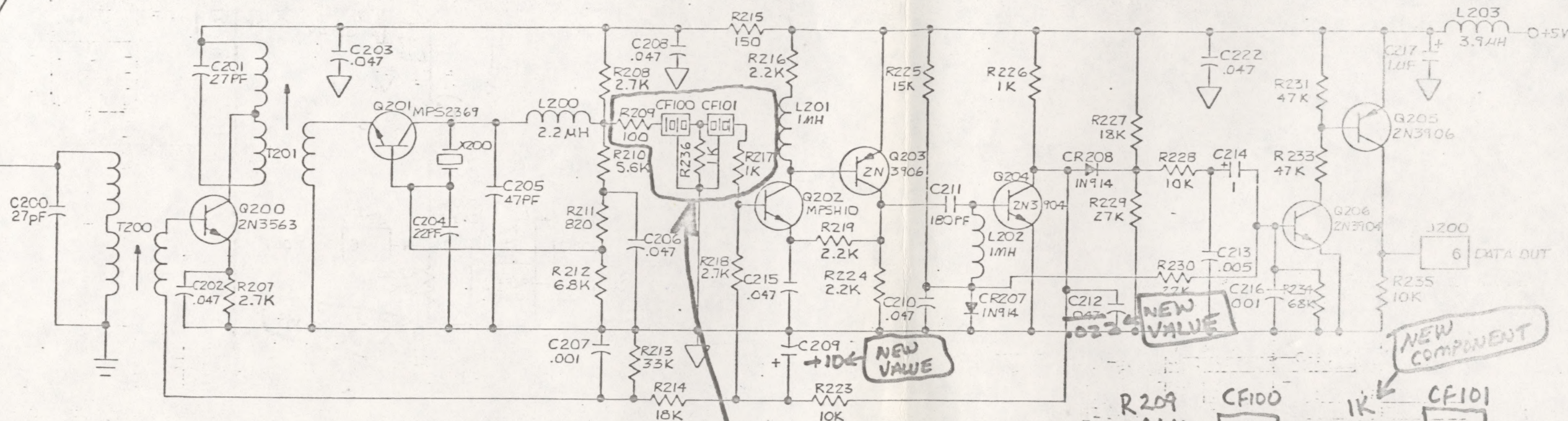
2N3906

PWR.

ON/OFF



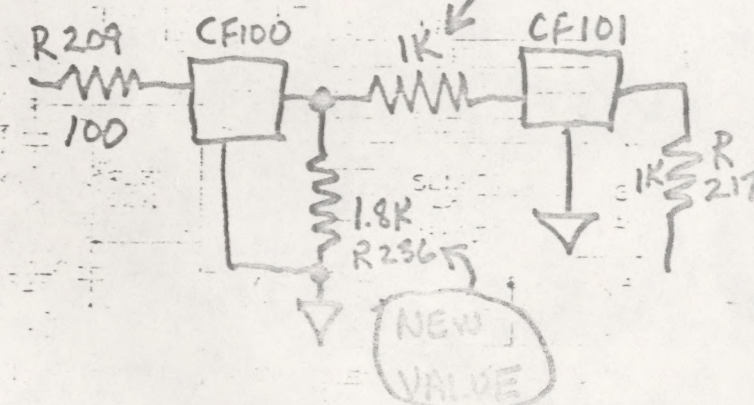
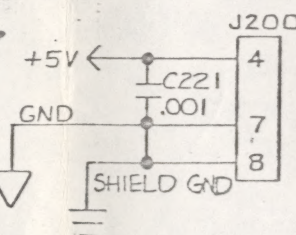
ANTENNA



LAST USED	NOT USED
R236	R220
C223	R221
J200	R222
CF101	R232
CR208	
L203	
T201	
X200	
A200	

DESIGNATOR	RT. RCVR	LT. RCVR
CR201	RT. DIF. B	REMOTE
CR202	RT. DIF. A	LOCAL
CR203	PADDER	B/W
CR204	JOYSTICK	COLOR
CR205	RESET	LFT. DIF. B
CR206	SELECT	LFT. DIF. A

SEE
DETAIL



OUTSTANDING ECNs

NOTES:

- UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS IN OHMS, 1/4W, 5%
ALL CAPACITORS ARE IN μ F.
- CF100 IS A CFU455F2, CF101
IS A SFU455A.

CA016912	CX2700
CA016333	CX2700
NEXT ASSY	USED ON
APPLICATION	

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SURFACE FINISH $\sqrt{\text{XXX}}$

MATERIAL:

FINISH:

DO NOT SCALE
DRAWING

DRAWN BY
T. POWELL

CHECKED
S. J. Powell 3/1/81

ENGINEER
P. J. Powell 3/1/81

PROJECT ENGINEER
DPK 3/10/81

MFG ENGINEER



Atari, Inc.
1265 Borregas Avenue
Sunnyvale, Calif. 94086
A Warner Communications Company

TITLE SCHEMATIC—
R.C. COMMANDER
RECEIVER BDS.

SIZE C DRAWING NO. C017273

REV 2

5/8/81

